MRD 1—10,006—23-2-50

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

# MADRAS RECORD OFFICE

## Government of Madras

Public Works DEPARTMENT

| | | |
|---|---|---|
| G.O. No. / B.P.—No. | 613 | Press / Mis.— |
| Dated | 3 — 3 · | C871 —195— |

***Not to be folded or roughly handled***

*Proceedings of the Madras Government, Public Works Department,*
*3rd March* 1875.

Read the following papers —

No 106 Proceedings of the Board of Revenue, dated 12th December 1874.

THE annual statements, showing the number of minor irrigation works requiring repair in each district and the amount proposed to be laid out thereon during the year 1875-76 have not been as yet received from the several districts except those noted in the margin although Collectors have been directed to send them before the 15th November of each year. The returns now received will be forwarded to Government for such use as can be made of them.

| | Amount proposed to be spent during the year 1875 76 Rs |
|---|---|
| Vizagapatam | 2,850 |
| Nellore | 74,942 |
| Tanjore | 1,24,466 |
| Madura | 86,627 |
| Salem | 90,259 |
| Cuddapah | 1,87,089 |
| Coimbatore | 62,662 |

(True Extract)

(Signed) J GROSE,
*Secretary*

No 1,072

*Note by the Chief Engineer for Irrigation*

No 107. I AM disposed to agree with the Collector of Nellore in considering that these annual statements of works requiring repair are not of much use, and that what value they may possess must necessarily be confined to the information they may afford to the District Engineer and his assistants, who ought, it may be noticed, to be themselves in possession of much better information based on personal inspections of the works in the several ranges.

2. The repair work which can be done in a district in any year is dependent upon the money provided, the labor available, and, at present, in a still greater degree upon the number of works which the Public Works Establishment can take up It is very desirable that the most should be made of all the means at the District Engineer's disposal, and, in order to a more systematic treatment of works and distribution of funds, a Circular was issued in 1869 pointing out the advantage which would result from drawing up yearly, about October or November, a scheme of repair expenditure for each range, or in other words deciding then, with reference to the known state of the works of the range, how a very large part at any rate of the probable grant for the following year should be laid out. If then these range budgets for repairs were discussed* personally by the District Engineer and each Range Officer with the Collector, Sub and Assistant Collectors, the Tahsildars being present, the most effectual way of managing the up-keep of the works from both the revenue and professional point of view would be secured I am unable to suggest a better plan than this. The Public Works Officers must decide what particular irrigation works require to render them efficient. The Revenue Officers should decide what particular works it is most desirable to take up In nine cases out of ten there would be no question as to the sanction of the estimates as proposed by the District Engineer, but in a few instances the Revenue Officers would have special reasons for desiring that

No 20, 23rd November 1869

* At meetings held for the purpose

particular works should be preferred to others, though all might equally need repair or reformation

3 It may be here observed that what has thus been proposed, in connection with irrigation works generally, is now done for the large systems of irrigation for which special allotments are made in the budget in detail, and undoubtedly the amount of consideration and forethought required in the preparation of the distribution of proposed expenditure cannot but be beneficial, and similar advantages would result from the extension of this arrangement to other works

4 It is a great mistake to attempt to deal in any one year with a larger number of works than can be properly estimated for, and thereafter properly carried out The results of mistakes of this kind are only too apparent, seeing that a dozen works are often repaired in a very inadequate manner, and a majority of them in a year of heavy rainfall breach, whereas had attention been confined to half the dozen, and had these been made safe and efficient, these would have required nothing more to be done to them for several years, and the other six would practically have been none the worse for being left alone until the following or another year.

5 Much judgment is required in deciding what shall be done to tanks which are evidently not safe, and which cannot all be attended to at once The first essential is undoubtedly to reduce as far as possible the risk of breaching The Government and the ryots' interests run side by side here. If then a tank cannot be attended to fully at once, the best plan will often be to reduce temporarily the level of the crest of its calingulah or surplus weir, or take measures for ensuring that too great a quantity of water shall not be retained In many cases the removal of the upright stones of calingulahs, or the lowering of the crests of surplus weirs would ensure safety, while, after the heavy rains were over, a small earthen bund, which would be carried away on the tank-water rising unduly, might be allowed to be placed on the crest of the weir to a level which should be fixed by the Range Officer with reference to the *ascertained* circumstances of the tank In this way, while maximum water level would be temporarily fixed at 1 or 2 feet, or perhaps more, below that which would ultimately be safe when all necessary repairs had been carried out, the tank would be able to hold a full or nearly a full supply if the later rains happened to be favorable. It is of course to be regretted that the rendering of any particular works efficient should have to be postponed, but this being unavoidable the question is in what way the most can be made of the tanks as they are, without running a serious risk of breaches and the consequent loss of all or nearly all the cultivation and revenue.

6 It is recommended that the lists received from the Board of Revenue be transmitted to the several District Engineers for information, and, if the views explained above meet with the approval of Government, it would perhaps be well to discontinue the preparation by Collectors of at any rate detailed lists, though if the Board wish it the Collectors could transmit abstracts showing the area of irrigation, average revenue, and proposed expenditure in each taluq on all irrigation works not forming part of a system of irrigation

7. The abstract statement furnished by the Collector of Tanjore shows some remarkable differences in the ratio of proposed expenditure to revenue It is tolerably certain that an outlay of Rupees 1,500 on four works in the Combaconum



Taluq with its 699 works and Rupees 7,36,452 of revenue derived therefrom, would be altogether inadequate Myaveram, Negapatam, and Titrapundy no doubt require a large outlay as suggested, and probably Sheally, if similarly dealt with, would absorb much more than the Rupees 1,220 indicated against it this taluq must be in a very favorable condition if only 5 of 141 works need repair. It may also be noticed that while possibly, through not probably, 688 works could be properly attended to in the year, 208 could not be taken up in one taluq (Negapatam) or 134 in another (Mayaveram).

8. The Salem list includes 483 works, and this is a far larger number than the Salem establishment can attend to properly I have been inspecting works in this district for the last fortnight, and certainly there is a very great deal to be done everywhere, and a great need of reformation in the way of treating works of this class, but this reformation would of necessity be indefinitely postponed if the number of works to be repaired in any year were to be so great as to make it certain that their actual requirements could not be ascertained The Cuddapah list contains 301 works, with a proposed expenditure of Rupees 1,87,089, and it is added that the effects of the recent floods have not been taken into account. The proposed outlay in the several taluqs bears the following proportion to the assessment of the works given in the list —

| No of Works * | | |
|---|---|---|
| 40 | Voilpaud, rather more than | 2 times the revenue. |
| 39 | Royachoty, nearly | 4 do |
| 31 | Madanapally, about | $\frac{5}{7}$ of do. |
| 36 | Kadiri, ,, | 2 times do. |
| 14 | Prodatur, nearly | $\frac{7}{8}$ of do |
| 19 | Jammalamadagu, nearly | $\frac{1}{2}$ do |
| 10 | Pulivendla, ,, | 2 do |
| 25 | Sidhout, ,, | $\frac{3}{4}$ do. |
| 38 | Pullumpett, ,, | $\frac{1}{3}$ do |
| 41 | Budwail, ,, | $\frac{1}{4}$ do. |
| 8 | Cuddapah, ,, | $\frac{4}{5}$ do |

It is unfortunately altogether impracticable, with the existing Public Works Establishment in this district, to spend profitably even one-half the sum named by the Collector. The grant for this year is Rupees 65,000, and, but for the large amount of emergent work necessitated by the floods, even this comparatively small sum would certainly not have been expended

The Madura grant for the current year is Rupees 50,000, and the Collector intimates that Rupees 86,627 are required for 1875 76. As far as is known in this office the means of taking up the number of works which would absorb this larger sum do not at present exist.

In Coimbatore the repair grant has generally been fully utilized, and the amount Rupees 62,662, asked for by the Collector, approximates closely to the provision in the current year's budget, which is Rupees 60,300

CAMP AT CARRYPETT, 19*th December* 1874. (Signed) JOHN MULLINS, Lieut-Colonel, R E, *Chief Engineer for Irrigation*

* Really number of villages, and in some cases villages have more than one work

*Proceedings of the Madras Government, Public Works Department,*
*3rd March* 1875

No 108. MINUTE by the Hon W ROBINSON, C S I, dated 18th January 1875

No. 109 ORDER THEREON, 3rd March 1875, No 613

IRRIGATION, No 6

His Excellency the Governor in Council is not prepared to sanction the discontinuance of the preparation and submission by Revenue Officers, through the Board of Revenue, of these lists of works requiring repair, for their preparation secures the attention of Collectors and of their taluq subordinates to the state of the works within their respective charges. At the same time the Note by the Chief Engineer for Irrigation contains useful suggestions, more especially that respecting periodical meetings for the discussion of works and system of works needing repair, to which His Excellency directs the attention of the Revenue and departmental Officers

2. The lists received from the Board of Revenue will be transmitted to the District Engineers concerned for information and attention.

(True Extract.)

Colonel, R E,
*Secretary to Government.*

To the Chief Engineer for Irrigation
To Superintending Engineers
,, District Engineers } Concerned
To the Revenue Department

Exd S T. Austin
Spare Copies

2-3

## PUBLIC WORKS DEPARTMENT.

*Minor Irrigation Works.*

G. O, No. , dated February 1875.

MINUTE BY THE HONORABLE W. ROBINSON, C.S I.

I CANNOT agree with the Chief Engineer for Irrigation as to the discontinuance of the report of Collectors on the repairs ~~wanted for~~ their irrigation works of their respective districts. The collection of this information is intended to ~~keep~~ the attention of Collectors and their subordinates, through all grades, on their irrigation works, and, if possible, to prevent the whole matter lapsing into a mere Department Public Works matter in which the Revenue officers are scarcely interested The abolition of this inquiry would cause entire indifference.

2. It is true that in some districts the lists are prepared in a perfunctory manner, and not carefully examined or compared with those of previous years and ~~often~~ glaring stupidity may be pointed out. It is true that Department Public Works Officers do not attach to these lists the importance they deserve and are perhaps desirous in places to get rid of them. But if rightly used—and the opportunity is often well availed of—the returns afford an admirable opportunity of examining the state of the works and registering them in the Collector's office with a view to their discussion with the Department Public Works Officers and enabling the Revenue Officers to exercise a judgment as to countersignature of estimate. It would therefore be much to be deplored if anything connected with a review of the irrigation works of his district is taken out of the Collector's hands, and much might be done to remedy shortcomings if Collectors were made to indicate systems of irrigation, such as all the tanks and channels under certain anicuts, that they wish repaired year by year. This has, I understand, been introduced in Tinnevelly, and by taking up a system in each taluq annually the entire taluq, and consequently the entire district, can be thoroughly overhauled in five or six years without the intervention of Overseers or underlings

3. I agree with Colonel Mullins as to the conferences, etc, but would not do away with these lists. The lists would be most useful at these conferences.

4. If the Chief Engineer for Irrigation would draw up some rules which would make the lists more useful it would be well.

(Signed) W. ROBINSON.

Exd. S, T. Austin.

5 C. Soundrayan
recd sent to the
Honorable W Robinson
24/2/75 CS

PUBLIC WORKS DEPARTMENT.

*Minor Irrigation Works.*

G. O, No. , dated February 1875.

MINUTE BY THE HONORABLE W. ROBINSON, C S.I.

I CANNOT agree with the Chief Engineer for Irrigation as to the discontinuance of the report of Collectors on the repairs wanted for their irrigation works of their respective districts The collection of this information is intended to keep the attention of Collectors and their subordinates, through all grades, on their irrigation works, and, if possible, to prevent the whole matter lapsing into a mere Department Public Works matter in which the Revenue officers are scarcely interested The abolition of this inquiry would cause entire indifference.

2. It is true that in some districts the lists are prepared in a perfunctory manner, and not carefully examined or compared with those of previous years and often glaring stupidity may be pointed out It is true that Department Public Works Officers do not attach to these lists the importance they deserve and are perhaps desirous in places to get rid of them. But if rightly used—and the opportunity is often well availed of—the returns afford an admirable opportunity of examining the state of the works and registering them in the Collector's office with a view to their discussion with the Department Public Works Officers and enabling the Revenue Officers to exercise a judgment as to countersignature of estimate. It would therefore be much to be deplored if anything connected with a review of the irrigation works of his district is taken out of the Collector's hands, and much might be done to remedy shortcomings if Collectors were made to indicate systems of irrigation, such as all the tanks and channels under certain anicuts, that they wish repaired year by year. This has, I understand, been introduced in Tinnevelly, and by taking up a system in each taluq annually the entire taluq, and consequently the entire district, can be thoroughly overhauled in five or six years without the intervention of Overseers or underlings

3 I agree with Colonel Mullins as to the conferences, etc., but would not do away with these lists The lists would be most useful at these conferences.

4. If the Chief Engineer for Irrigation would draw up some rules which would make the lists more useful it would be well.

(Signed) W. ROBINSON.

Exd. S, T. Austin.

Cuddapah

Collector's Office

Dt. November 1874.

From

H. D. Horsley Esquire

Collector of Cuddapah

To

J. Grose Esquire

Secretary to the Board of Revenue

Madras.

Sir,

With reference to the Proceedings of the Board of Revenue as per margin I forward a statement showing the Irrigation works in this District requiring repairs for 1875/76, prepaired in conformity with the Board's instructions in the concluding part of para 5 of their Proceedings dated 3d March 1873 No 298. The amount of expenditure required on each work exceeds in many cases 10 per cent of the Revenue. This would not have been the case had

5th February 1874 No 226.
4th May 1874 Miscellaneous No 3132 communicating GO. dated 17th April 1874 No 996.

the repairs have executed immediately they were required. The repairs have been roughly estimated on reports of Tahsildars and villagers, but I generally find that such estimates are lower than those framed by the Public Works Department.

2. The damage to irrigation works incurred by the late rains and floods are not provided for as detailed information on the subject has not yet been furnished to me.

I have the honor to be
Sir
Your Most Obt Servant

Collector

To
The Chief Secretary

Madura
Collector's Office
on Circuit
(Camp) Pulnie
31st October 1874

No 372

Despatched 10th Nov 1874

From,

W McL Duhae Esquire
Collector of Madura

To,

J. Grose Esquire
Secretary to the
Board of Revenue
Madras

Sir

With reference to para 5 of the Board's Proceedings, No 298 dated the 3rd March 1873, I have the honor to submit herewith a Statement, prepared according to the prescribed form and shewing the irrigation works in this District requiring repairs during the Official year 1875-76.

2. The total estimated cost of all the repairs required is 14 per cent on the Estimated revenue derivable from irrigation works in the District, as compared with 16 per cent shewn in the similar return submitted for the current year.

I have the honor to be,
Sir
Your most obedt Servt

W McL Duhae
Collector

Received 6th Nov 1874.
Rec'd 3/12/74.
Rec'd 6/11/74.
Rec'd 6/11/74.
Rec'd 6/11/74.

Tanjore Collector's office
Negapatam 20th November 1875.

No. 356.

From

H. S. Thomas Esquire
Ag. Collector of Tanjore.

To

J. Grose Esquire.
Secretary to the Board of
Revenue Chepauk. Madras.

Sir,

With reference to the Proceedings of the Board of Revenue dated 3rd March 1876 No 298, I have the honor to forward [x Already sent] Taluqwar Statements showing the particulars regarding irrigation works which require repairs during the of year 1875 76 as well as a General abstract statement for the whole District.

I have the honor Sir,
Your most obdt servant

H. Thomas.
Ag Collector

Copied.
Compd

No. 433.

Salem Collector's Office
Salem 18th November 1874.

From

The Collector of
Salem

To

The Secretary to the
Board of Revenue
Madras.

Sir,

With reference to the Board's Proceedings, dated 3rd March 1873, No. 298, I have the honour to forward a statement shewing the Irrigation works requiring repair and the probable amount needed for each to put it in good order. Whenever the estimated amount exceeds 10 per cent of the revenue under a work, an explanation of the necessity for expending so much as given.

I have the honour to be
Sir,
Your most Obt. Servant

C. J. Loughley
Collector.

Comd. Pd. 2 Ck

No 2537

Encl: 1.

Nellore,
Collectors office,
16th October 1874.

From

G. Vans Agnew Esquire,
Collector of Nellore.

To

J. Grose Esquire,
Secretary to the Board of
Revenue, Madras.

Sir,

I have the honor to submit
a statement, showing the
irrigation works requiring
repair.

2. The statement gives village
-wise details for each tahsildary.

The following is an
abstract

abstract.

| Talugs. | Number of works | Ayacut | | Highest cultivation during the last 5 years | | Expenditure during the Last 5 years | Amount required for repair |
|---|---|---|---|---|---|---|---|
| | | Area | Assessment | Area | Assessment | | |
| | | acres | Rs. | acres | Rs. | Rs. | Rs. |
| Gudur | 57 | 22821 | 121194 | 19656 | 107501 | — | 22426 |
| Rapur | 27 | 3116 | 13834 | 2358 | 12488 | 3974 | 6925 |
| Nellore | 5 | 1340 | 6201 | 1143 | 5753 | 1162 | 2700 |
| Atmakur | 13 | 4773 | 24735 | 4463 | 23157 | 5786 | 5340 |
| Kavale | 10 | 3771 | 17215 | 3633 | 16288 | — | 3190 |
| Udayagiri | 21 | 1172 | 5993 | 1858 | 9123 | 1605 | 3660 |
| Kanduker | 70 | 18145 | 89924 | 15713 | 76483 | — | 27532 |
| Kanigiri | 9 | 1083 | 3713 | 927 | 4404 | — | 2013 |
| Ongole | 11 | 760 | 4557 | 610 | 4574 | 458 | 1156 |
| Total | 217 | 56981 | 287376 | 49664 | 249165 | 12385 | 74942 |

3. The return for the Nellore Taluq does not contain any delta works, while that of the Gudur Taluq comprizes some of them. The return for the Kanduker Taluq contains some works for the repair of which steps have already been taken, and also a few work which are in good condition. The Tahsildars of Gudur, Kavali, Kanduker and Kanigiri do not show the amount expended during the last 5 years.

4. Strict instructions were issued in Revenue Circular No. 9 of 1872 and repeated in Circular No. 66 of 1873, directing the Tahsildars to prepare this return with particular care. I am again drawing the attention of the Tahsildars to the subject. As the return is shortly due I send it as received from the Tahsildars, it being too late to

obtain revised details.

5. I beg to observe that I doubt whether these Long detailed statements are likely to be of any use out of the District. The District Engineer has already conferred with me and sent in his Agricultural Budget for next year. The amount entered for Agricultural Repairs is Rs. 67,000. Of this Rs 25,000 are for works including "Tanks" in the Pennair Delta. Rs. 19,000 are distributed among four Divisions for what are now called "Capital" works and Rs. 2,000 under the head of Agricultural Miscellaneous being a provision for the investigation of projects of Irrecollect[illegible] [illegible]



The Tahsildars' statements, such as they are, will be of use to the District Engineer in regard to the expenditure of the item of Rs. 4,000, and I have been in the habit of supplying his Department with similar information for years past both in this and other Districts, but the Statements will hardly affect the Budget grant and it would be a pity if they did; for it is impossible to get the Tahsildars to prepare them correctly. Still they are useful to District Engineers.

I have the honour to be,
Sir,
Your most Obed[t] Serv[t],

Fra[s] Elwood
Collector.

4

2-11

No 3,602

PROCEEDINGS OF THE BOARD OF REVENUE, dated 12th December 1874.

THE annual statements showing the number of minor irrigation works requiring repair in each district and the amount proposed to be laid out thereon during the year 1875-76 have not been as yet received from the several districts, except those noted in the margin, although Collectors have been directed to send them before the 15th November of each year. The returns now received will be forwarded to Government for such use as can be made of them.

| | Amount proposed to be spent during the year 1875 76 |
|---|---|
| Vizagapatam | 2,850 |
| Nellore | 74,942 |
| Tanjore | 1,24,466 |
| Madura | 86,627 |
| Salem | 90,259 |
| Cuddapah | 1,87,089 |
| Coimbatore | 62,662 |

(A true Extract)

J Grote
Secretary

To the Acting Secretary to Government, Public Works Department,
with letters (to be returned) and statements from seven districts

Copy to the Acting Secretary to Government, Revenue Department
,, to all Collectors.

Exd A Grubert.

P. W. 1874 Dept
No: 7822

1874.

# Board of Revenue,

## MADRAS.

PROCEEDINGS, 12TH DECEMBER 1874, No 3,602

Dep D 12 Dec 74 } Encl
Read - 12 Jany 1875 }

*Received*

DECEMBER
No 3,602

*Minor Irrigation Works*—requiring repair in each district of Madras Presidency —Government, Public Works Department, informed that annual statements showing number of — and the amount proposed to be laid out thereon during 1875-76 have not yet been received from several districts Such returns as have been received, forwarded to Government

Revenue Department.

PROCEEDINGS OF THE BOARD OF REVENUE,

Dated 12th December 1874.

Re Annual statements showing the number of minor irrigation works requiring repair in each District and the amount proposed to be laid out thereon during the year 1875-76 have not been received from the undermentioned Districts

| Amount proposed to be spent during the year 1875-76. |
|---|
| Vizagapatam 2850 |
| Nellore 74,942 |
| Kanjore 1,24,466 |
| Madura 86,627 |
| Salem 90,259 |
| Cuddapah 1,87,089 |
| Coimbatore 62,662 |

from the districts mentioned in the margin

Attempts Collectors have been directed to furnish the returns before the 15th November of each year. The returns now received will be forwarded to Government for such order as may be made on them.

Extract

Sd/ [illegible]
Secretary

To The Secretary to Government, Public Works Department, with letter (to be returned) and Statements from 7 Districts.

Sd/ [illegible]
Secretary

No 1072

Note by the Chief Engineer for Irrigation

I am disposed to agree with the Col. Director of Nellore in considering that these annual statements of works requiring repair are of much use, and that what would be very useful would be a periodical inspection of the works by the Superintending Engineer of the Circle, or by the Executive Engineer of the District, who might be noted, to be themselves to the Board, or to Government, as the case may require, the state of repair in which they found the works, and the amount of money required for their repair. The repair works which can be done in a District in any year is dependent upon the money provided, the labour available, and at present in a still greater degree upon the number of works which the Public Works establishment can take up. It is very desirable that the most should be made of all the means at the disposal of the District Engineer and his Assistants, and I think that the Board of Revenue should call for a report from each District Engineer as to the manner in which he proposes to carry out the repairs.

2/1/75

No 1072

Read 12 Dec. 1874

Read 14 " "

Ent. 21.

Minor Irrigation works requiring repair in each Distt. — Govt. informed that annual Statements showing number of — and kind of work proposed to be laid out thereon for 1875-76 have not been received from several Districts — such returns as have been received are forwarded to Govt.

S.C. No: 6132 3-3-75

No 18/22/75

No 166
6-2-75

R.C. 31-1-75
R.C. 15-1-75
R.C. 5-1-75

to a more systematic treatment of works and distribution of funds, a Circular was issued in 1869 pointing out the advantage which would result from drawing up yearly about October or November a scheme of repair expenditure for each Range, or in other words deciding them with reference to the known state of the works of the Range how a very large part at any rate of the probable grant for the following year should be laid out. If then these Range budgets for repairs were discussed personally by the District Engineer and each Range Officer with the Collector, Sub and Assistant Collectors, the Tahsildars being present, the most effectual way of managing the upkeep of the works from both the Revenue and professional point of view would be secured. I am unable to suggest a better plan than this. The Public Works officers must decide what particular irrigation works require to render them efficient. The Revenue officers should decide what particular works it is most

No. 20 - 23 November 1869

for the purpose



most desirable to take up. In nine cases out of ten there would be no question as to the sanction of the estimates as proposed by the District Engineer, but in a few instances the Revenue Officers would have special reasons for desiring that particular works should be preferred to others, though all might equally need repair or reformation.

3. It may be here observed that what has thus been proposed in connection with irrigation works generally is mainly done for the large systems of irrigation for which special allotments are made in the Budget in detail, and undoubtedly the amount of considered low and forethought required in the preparation of the distribution of proposed expenditure cannot but be beneficial, and similar advantages would result from the extension of this arrangement to other works.

It is a great mistake to attempt to deal in any one year with a larger number

number of works than can be properly estimated for, and thereafter properly carried out. The results of mistakes of this kind are only too apparent, seeing that a dozen works are often repaired in a very inadequate manner, and a majority of them in a year of heavy rainfall breach, whereas had attention been confined to half the dozen, and had these been made safe and efficient, these would have required nothing more to be done to them for several years, and the other six would practically have been none the worse for being left alone until the following another year.

5. Much judgment is required in deciding what shall be done to tanks which are evidently not safe, and which cannot all be attended to at once. The first essential is undoubtedly to reduce as far as possible the risk of breaching. The Government and the ryots' interests run side by side here. If then a tank cannot



be attended to fully at once, the best plan will often be to reduce temporarily the level of the crest of its Calingulah or surplus weir, or take measures for ensuring that too great a quantity of water shall not be retained. In many cases the removal of the upright stones of Calingulahs, or the lowering of the crests of surplus weirs would ensure safety, while after the heavy rains were over a small earthen bund which would be carried away on the tank water rising unduly might be allowed to be placed on the crest of the weir to a level which should be fixed by the Range Officer with reference to the ascertained circumstances of the tank. In this way while maximum water level would be temporarily fixed at 1 or 2 feet, or perhaps more, below that which would ultimately be safe when all necessary repairs had been carried out, the tank would be able to hold a full

or

or nearly a full supply of the later rains happened to be favourable. It is of course to be regretted that the rendering of any particular works efficient should have to be postponed, but this being unavoidable, the question is in what way the most can be made of the tanks as they are, without running a serious risk of breaches and the consequent loss of all or nearly all the cultivation and revenue.

6 It is recommended that the Lists received from the Board of Revenue be transmitted to the several District Engineers for information, and, if the views explained above meet with the approval of Government, it would perhaps be well to discontinue the preparation by Collectors of at any rate detailed lists, though if the Board wish it the Collectors could transmit abstracts showing the area of irrigation, average Revenue, and proposed expenditure in each taluq on all irrigation works not forming part of a system of irrigation.

7. The abstract statement furnished by the Collector of Tanjore shows some remarkable differences in the ratio of proposed expenditure to revenue. It is tolerably certain that an outlay of 1500 Rupees on works in the Combaconum Taluq with its 699 works and Rupees 73,645 of revenue derived therefrom, would be altogether inadequate. Mayaveram, Negapatam and Tirapundy no doubt require a large outlay as suggested and probably Shealy if similarly dealt with would absorb much more than the 1220 Rupees indicated against it: this Taluq must be in a very favourable condition if only 5 out of 141 works need repair. It may also be noticed that while possibly, though not probably, 688 works could be properly attended to in the year, 208 could not be taken up in one Taluq (Negapatam) or 134 in another (Mayaveram). The Salem list includes 483 works and thus is far larger number than the Salem Establishment can attend to properly. I have been inspecting works in this District for the last fortnight and certainly

certainly there is a very great deal to be done every where and a great need of reformation in the way of treating works of this class, but this reformation would of necessity be indefinitely post-poned if the number of works to be repaired in any year were to be so great as to make it certain that their actual requirements could not be ascertained. The Cuddapah list contains 301 works with a proposed expenditure of Rupees 187089, and it is added that the effects of the recent floods have not been taken into account. The proposed outlay in the several Talugs bears the following proportion to the assessment of the works given in the list—

| No. of works | | | | |
|---|---|---|---|---|
| 40 | Voilpaid rather more than | 2 | times the revenue | |
| 39 | Royachoty nearly | 4 | " | " |
| 31 | Madanapally about | 3/7 of | " | " |
| 36 | Kadiri | 2 | times | " |
| 14 | Proddatur nearly | 7/5 of | " | " |
| 19 | Jammalamadagu nearly | 1/2 | " | " |
| 10 | Pulivendla | 2 | " | " |
| 25 | Sidhout | 3/4 | " | " |
| 38 | Gullumpett | 1/3 | " | " |
| 11 | Bidwail | 1/4 | " | " |
| 8 | Cuddapah | 4/9 | " | " |

* really numbers of Villages and in some cases Villages have more than one work—

It

It is unfortunately altogether impracticable with the existing Public Works Establishment in this District to spend profitably more than one half the sum named by the Collector. The grant for this year is Rupees 65,000 and, but for the large amount of emergent work necessitated by the floods, even this comparatively small sum would certainly not have been expended.—

The Madura grant for the current year is Rupees 50,000 and the Collector intimates that Rupees 86,627 are required for 1875-76. As far as is known in this office the means of taking up the number of works which would absorb this larger sum do not at present exist.

In Coimbatore the repair grant has generally been fully utilized, and the amount, Rupees 62,662, asked for by the Collector approximates closely to the provision in the current year's budget which

P. W. 1875 Dept.
Am: Gov. for Madras

No: 18

From
The Chief Engineer
for Irrigation
To The Secretary to Govt.
P. W. D.

No 1072

Dated 19th December
Rec'd 4 January 1875. 1874

Ref. to Encls 22

No. 18 on the annual statements from certain collectors showing the number of minor irrigation works requiring repair and the amount proposed to be laid out thereon during the year 1875-76.

M. No: 673. 3-3-75.

A 3/17
6-2-76

Q. & C. 21-1-75
Fin. 15-1-75 R. 20 Jany 175
Com. 5-1-75 R. 11 Feby 175

P. W. Dept.

Proceedings of the Madras Government

Read the following.

Pro. Board of Revenue (H. E. No — 9 12th Dec 74.)
Chief Engineer for Irrigation (" " 1072 " 19th — do —)

Q. P. C. 615 of 1874

His Excellency the Governor in Council concurs with the Chief Engineer for Irrigation in think. ing that the submission by Collectors through the Board of Revenue to Government in this Department of lists of irrigation works requiring repair serves no useful purpose, and is therefore a waste of time. The selection of works to be repaired

I do not consider that the periodical revision of the State of his works by the Collector and Executive Engineer with a view to their Estimates for Contingencies and Repairs should be called upon to submit Estimates for the Ensuing year. The Estimates for repairs must be based upon the number of works requiring repair. Of the Estimates submitted will arise from the condition of the Revenue Irrigation Works.

One of the chief causes of Excessive Repair Estimates is that practically the Collector and the Overseer [illegible] do not [illegible]

repaired must depend upon many considerations, and the determination of what shall be done can best be left to the Collectors and District Engineers, who have the best means of judging what should, and what can be done.

2. It is quite certain that at present much more repair work is needed than can be accomplished, and if ever the irrigation works of the Country are to be brought to an efficient condition it must be, His Excellency thinks, by making as many of them, year by year, safe in all respects, as may be practicable, and then taking up others in succession, instead of attempting to deal with a number of works in any one year which would be altogether beyond the means of the Department to estimate for and superintend properly.

3. In the foregoing note the general way in which the programme of repair work for any year should be made out has been indicated, and if the local Revenue and Public Works officers will take due pains with the preparation of such a programme, the moneys available will certainly be turned to much better account than would seem to have been the case, at least in some Districts, hitherto.

4. The list received from the Board of Revenue will be transmitted to the District

District Engineers concerned for information, and any others which may be received hereafter will be similarly disposed of.

Dy: 19/12/24

No 108

I cannot write the Letters in connection with the Returns of these Returns - I think he can have his own way about this if possible - but I should not like them.

L.B.P.

W. 1.

My duties not the same as those performed by Lt. Col. C. Pequiers, and I should not like to be called upon to undertake a work of this kind.

In relation to the preceding all Superintending Engineers Executive Engineers Chief Engineer for Irrigation Board of Revenue Revenue Department

Rec'd 21-1-75
Rec'd 15-1-75 Sent 20-1-75
Sent 5-1-75 R. Heyland 1/75

Explanatory Memo re 7

The object of my Note was to suggest a useful, in my opinion, a practically useful arrangement - I feel sure that no one takes any interest in the distribution of works submitted by the Collectors, and that Collectors know nothing about their contents - Possibly the abstract statements referred to in para 6 of the Note would be useful, as they would call attention to marked differences between Revenue & Proposed expenditure. It is useful to divide that Revenue Officers should take an interest in the way in which money provided for the maintenance of irrigation works is laid out; and this interest can be secured only in connection with an acquaintance with the works themselves. Now Buckle knows a great deal about the irrigation works of Tinnevelly and his interest in them consequently took a

practical form and be entitled
that influence which is to be desired in
all cases, but which without similar
knowledge does, in my opinion, impossible
for the Revenue Officers to possess
In this list the subscription of which the
Hon.ble Mr Robinson wishes to continue,
certain outlay is said to be required on
certain works, but it will be perfectly
safe to assume that the person who
made this estimate knew very little about
the matter & that the Revenue Officers, through
whom necessarily the information was
prepared, knew nothing at all.

I cannot of course have the slightest
objection to the preparation of the lists
but it appears to me that, with a con-
viction of their inutility and with a
knowledge of what was really required
to get Revenue Officers to take some part
in the management of the Irrigation works,
it was desirable to suggest some improved
arrangement

I am aware that the preparation of estimates

is in some Districts left too much in
the hands of subordinates, and whenever the fact comes to my notice the
District Engineers are told that it is the
Range Officers business to settle what is to be
done and the subordinates' business to
carry out his instructions - As a rule
no Overseer should be left to determine
what is to be done to any irrigation
work The lists however are in no
way a remedy for this evil - The
P.W. subordinates are neither more useful
venal than those of the Revenue and
other Departments - If they be properly
looked after they will do their duty satisfactorily: if, as is now necessarily the case, they
are left far too much to their own
devices the Government will not get
a full return for money spent
If the Government wish the lists to be
prepared as hitherto, they can be made
out, but I think that the view that
these lists are any evidence of interest on
the part of Revenue Officers or any check on
the P.W. subordinates is based on a misapprehension

Rev. 7/1/75

I cannot agree
with the Chief Engineer
for irrigation as to the
discontinuance of the
Reports of Collectors during
the Repairs wanted for
their irrigation works
of their respective Districts
The Collection of the
information is intended
to keep the attention of
Collectors & their Subordinates
through all grades on
their irrigation works and
if possible to prevent
the whole matter lapsing
into a mere D.P.W matter

in which the Revenue
Officers are directly
interested. The abolition
of the cropping would
cause entire indifference.
It is true that
in Kaira District the
lands are prepared and
performing any nutrients
not carefully expended
or conserved with those
of previous years and
plus farm refuse
may be found and
It is true that D.P.W.
Officers do not attach
to them that importance
they deserve and are
perhaps desirous
to get rid of them but
if rightly used — and
the opportunity is often
made available of the



Revenue officers affords an
admirable opportunity
of examining the state
of the works & registering
them in the Collectors office
with a view to their progress
with the D.P.W. Officers &
enabling the Revenue
Officers to express their
judgment as to comparative
Expenditure of Estimate.
It would therefore be
much to be deplored
if anything connected
with a review of the
irrigation works of this
District is taken out of
the Collectors hands and
much might be done
to remedy shortcomings
if Collectors were made
to undertake systems of
irrigation such as all
the tanks & channels
under certain Acts
that they will be

P. W. D.

Proceedings of the Madras Government,

*Under date the* 187 .

Read the following —

Pro: Board of Revenue - (M. E. Jee — dy 12 Dec 1874)
Chief Engr for Irrigation (" " " 1872 - 19 Dec "
615

His Excellency the Governor in Council is not prepared to sanction the discontinuance of the preparation and submission by Revenue officers through the Board of Revenue of these lists of work to requiring repair, for their preparation secures the attention of Collectors and of their Salary subordinates to the state of the work to written

you by you. This has understand, been introduced in Tinnevelly and by taking up a system in each Taluq annually the entire Taluq and Consequently the entire District can be thoroughly overhauled in 6 or 6 years without the intervention of Superior Establishment

I agree with the Colonel Pitching as to the Conference of Collectors with Executive Engineers with these lists. The list of the most urgent of these Conferences

Of the Collectors & Executive Engineers at Same Stations should meet & discuss the lists when ready & with

CBT

their respective charges at the same time the date by the Chief Engineer for Irrigation contains useful suggestions to which His Excellency directs the attention of the Revenue and Departmental officers.

2. The lists received from the Board of Revenue will be transmitted to the District Engineers concerned for information and attestation.

Add

Sir

I am especially that periodical meetings for the discussion of works & systems of works needing repair.

Yours

No 4/2/75

No 106-109

16-2-75

To

The District Engr Vizagapatam
" " Nellore
" " Cuddapah
" " Salem
" " Guddalore
Supdg Engr Coimbatore
" " Cauvery
Chief Engr for Irrigation
Revenue Department
District Engr Trichinopoly
" " Madura
" " Ramnad
" " Bellary

dated 2-3-75

18/1822/V

Govt. of [1875] Madras

PUBLIC WORKS.

To

The Chief Engineer
Irrigation

Dated

Read Part 6

R. O. 5 Mar. 1875, No. 612

Nos. 106-109.

Minor Irrigation Works-

Passing orders on Rite by the Chief Engr. for Govt. on the Annual statements from certain Collectors showing the number of Irrigation works requiring repair & the amount proposed to be laid out on them during the Year 1875-76.

116-2-75