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MADRAS RECORD OFFICE.

Government of Madras.

Pension DEPARTMENT.

G.O. No.	<u>1149</u>	Press Mis.
Dated	<u>26-11-</u>	<u>1880.</u>

Not to be folded or roughly handled

CONFIDENTIAL

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

3rd February 1880, No. 265 W.

General.
Establishment.

Read again—

G.O., No. 2,435 W., dated 25th Sept. 1879.
" 2,482 W., " 2nd Oct. "
" 2,483 W., " " "
" 2,522 W., " 7th " "
" 2,530 W., " " "
" 3,191 A.W. " 12th Dec. "
" 3,194 A.W. " " "
" 3,218 W., " 15th " "

Read also the following paper :—

No. 2-W.

No. 9.

Memorandum by the Chief Engineer for Irrigation.

THE material reductions in the Public Works Department found requisite having rendered it necessary to provide specially for the future work of the Irrigation Department, it has to be determined what divisions or parts of divisions will need a special irrigation establishment and, with reference to the work to be done, what establishment should be provided; also what divisions will no longer require to be maintained.

It is probable that the withdrawal of certain divisions from the operations of the Public Works Department will not result in any material reduction of *works* outlay in the Irrigation Department, because it has been well known for many years past that the work done hitherto has been far less than that urgently needing to be carried out, and that improvements necessary to the safety and efficiency of tanks and other irrigation works generally have made but little progress owing to the smallness of the grants available, and partly also to the inadequacy of the establishment, as compared with the many demands made upon it.

2. GANJAM DIVISION.—Commencing with the northern part of the Presidency it may be concluded that the abolition of the Ganjam Division is, at any rate for a time, unavoidable. The average expenditure on irrigation and agricultural works

	RS.	
1876-77	51,484	has for the last three years been Rupees 48,309, and no special and suitable
1877-78	67,901	establishment can be maintained to carry
1878-79	25,544	out so small a quantity of work. There
	3)1,44,929	is no prospect of money being forth-
	48,309	coming, for some years at any rate, to
		carry out the Rooshkulia, Mallada Tam-
		para, and other similar projects, and the
		assessment on irrigated lands is so low

as to make it very difficult to improve the condition of this description of cultiva-

tion. Moreover, the Collector is averse to the sanction of repair estimates for tanks and channels, the wet assessment of the lands under which is but little more than that of dry lands. He considers that these works should be maintained by the ryots holding the lands under them, as no doubt was the case prior to about twenty-five years ago. A grant-in-aid of about 10,000 will probably enable the Collector to assist the ryots in cases in which he may deem the work to be done to be beyond their power or means. Rupees 1,000 also may be allowed for river-embankments.

3. VIZAGAPATAM DIVISION.—There are only two taluks in the southern part of the district, in which there are irrigation works in which Government have an interest, and there are hardly any such works over which Government can exercise any complete control, as Zemindars or proprietors are largely interested in most of them, and no satisfactory arrangements have so far been made to allow of their being properly dealt with, or to ensure the contributions of the proprietors being forthcoming when needed. The average

	RS.
1876-77	17,240
1877-78	12,407
1878-79	5,183
	3)34,830
	11,610

outlay of the past three years has been Rupees 11,610. It is considered that little or no advantage would be obtained by continuing to maintain an establishment to look after irrigation works, even were expense a matter of little moment. The abolition of this division is therefore recommended. Rupees 8,000 may be reserved as a grant-in-aid for minor irrigation works, and Rupees 1,000 for river-embankments.

4. GODAVARI DELTA.—The Godavari Eastern and Central Delta Division and Western Delta Division must, of course, be retained and adequately officered. There are a few outlying works, such as the river-embankments above the anicut which will need attention from time to time, and these may, as already directed, continue to be attached to the divisions from which they can most conveniently be worked.

The superior executive establishment should consist of—

Executive Engineers	...	...	...	2
Assistant Engineers—				
3 Sub-divisions of E. and C. Delta.	*3			
2 Do. W. Delta	2			
				5

* It is proposed to retain Mr. Sub-Engineer Ellis in charge of one sub-division.

5. RAJAHMUNDY DIVISION.—Apart from the works which are to be attached to the Godavari Delta Divisions there is no need to maintain an irrigation establishment in this division, which has already been practically abolished. The outlay of the past three years amounted on the average to Rs. 16,055, and it is not practicable to provide an establishment for so small an extent of work. Rs. 10,000 may be reserved as a grant-in-aid for minor irrigation works maintenance.

	RS.
1876-77	*19,511
1877-78	17,654
1878-79	10,999
	3)48,164
	16,055

* Exclusive of the outlay on river-embankments and river conservancy.

6. KISTNA DELTA.—There are two executive divisions, viz.—
the Eastern Delta Division,
the Western do.

at present for the former two sub-divisions will suffice, but when the completion estimates are undertaken a head-quarter sub-division will be essential. For the Western Delta two sub-divisions will permanently suffice.

The superior executive establishment will be—

Executive Engineers	...	...	...	...	2
Assistant Engineers	...	...	...	...	4

7. GUNTUR DIVISION.—This has been abolished or removed from the operation of the Public Works Department. One work, the Kistna left flood bank above Bezvada, has been attached to the Kistna Eastern Delta Division, and there is no other work of importance to be considered.

Rs. 5,000 may be reserved as a grant-in-aid for the maintenance of minor irrigation works.

	RS.	
1876-77	25,826	8. ONGOLE DIVISION.—There are
1877-78	36,947	no irrigation works of much importance.
1878-79	13,275	The area is large and the outlay has
	3)76,048	averaged for the past 3 years Rs. 25,349.
	25,349	There is no option but to cease to deal
		with it in any way by the professional
		department. Rs. 5,000 may be allowed
		as a grant-in-aid.

9. NELLORE DIVISION.—This divisions as constituted in 1878 comprised the part of the Nellore Taluk north of the Pennair, and the part of the district south of that river. As the Pennair anicut system will in any case have to be looked after, and as the irrigation under the Sungum channels is important, while there are some valuable tanks and channels to the south of the river, outside the Delta, it is considered that this division may be left unchanged, and that for it the superior establishment required will be—

Executive Engineer	...	...	...	...	1
Assistant do.	...	...	...	...	1

Should the Sungum project be sanctioned a special establishment will be required for it.

10. Government have recently decided to place officers, designated as Superintendents of Works, in charge of the Godavari and Kistna Deltas in order to relieve the Superintending Engineer from an excess of work, and to ensure closer attention being given to the requirements of these very important systems. There will no longer be any work other than irrigation, with perhaps an occasional special building, for the Superintending Engineer to look after, and it is considered that—

- (1) Superintendents of works are unnecessary;
- (2) They would inevitably make the establishment too costly.

It is recommended that the—

Godavari Delta with its 2 divisions,

Kistna " " 2 "

Nellore Division in which is the Pennair anicut,

be made the 1st Irrigation Circle under a Superintending Engineer.

The superior establishment will then be—

1 Superintending Engineer,
5 Executive Engineers,
*10 Assistant do.
3 Supernumerary Engineers,

* Nine so long as Mr. Sub-Engineer Ellis is in charge of a sub-division.

will be required to take the place of officers on privilege leave or furlough, and to provide a third sub-divisional officer for the Kistna Eastern Delta in due course. There is special work to be done in connection with the Godavari Central Delta completion estimates at present and the supernumerary officers' services would be at the disposal of the Superintending Engineer for this and any other special duty at times when they may not be required to fill executive charges. It is considered that the inclusion of the Nellore Division in the 1st Circle is a proper and suitable arrangement, because it will, after one complete inspection, not occupy very much of the time of the Superintending Engineer, and it will be accessible to him by canal, boat or coasting steamer without much loss of time, when a special visit may be found necessary. It has for a long time past been very much neglected, and it will, it is hoped, be properly attended to in the future.

11. CUDDAPAH, MADHANAPALLI, KURNOOL, BELLARY AND ANANTAPUR DIVISIONS.—These Divisions all present the same characteristics, viz., large areas, numerous scattered works, of which a few are of some importance and the rest individually of very little consequence. It is recommended that under present circumstances there be no Public Works Establishment retained in these divisions on account of irrigation works, and that the following sums be reserved as grants-in-aid for maintenance of such works.

	RS.
Cuddapah Division	15,000
Madhanapalli "	7,500
Kurnool "	12,000
Bellary "	12,000
Anantapur "	10,000

12. CHINGLEPUT DIVISION.—This is too important a division to be given up, whether the works or the revenue dependent upon irrigation be considered. The area is moderate, and it can probably be fairly well managed, so far as irrigation alone is concerned, by one Executive Engineer with two sub-divisional officers who need not be Assistant Engineers. It is assumed that if there be military buildings or other non-irrigation work to be attended to these will be looked after by another officer.

13. VELLORE DIVISION.—There is a good deal of work to be done in this division, and there is now a prospect of its being carried out, as money can be transferred from divisions which are to be given up. The improvements to the principal channels of the north section of the Palar anicut system should be taken up where they were left at the close of the famine; very many of the numerous tanks connected with this system require to be put to rights; the south section has been left incomplete for some twenty years. The Poiney anicut channels and those of the Cheyar anicut, with the tanks connected with them, need much attention in order to make the most of the water-supply. For some years to come it will be advisable to allow two sub-divisions for this division, viz.—

- (1) Northern,
- (2) Southern.

All the principal channels of the north section of the Palar anicut system should be attached to the (1) sub-division, whether they lie in Chingleput or not, as the water main regulation should be entirely in the hands of one officer. The minor channels and tanks of the system in Chingleput would remain in charge of the Executive Engineer of the latter Division.

The sub-divisions should be held by Assistant Engineers.

14. CHITTOOR DIVISION.—The greater part is Zemindary, and there is nothing to make its retention under present circumstances desirable. Any part of the Poiney anicut channels or any tanks supplied by them, which may be in this division, can be attached to the Vellore Division. A grant-in-aid of 12,000 rupees may be reserved for the maintenance of minor irrigation works.

15. OOSOR DIVISION.—There is at present but little work in progress of a kind needing skilled supervision, but it will be desirable to complete the Marandahully and Barur projects, which were commenced for famine relief purposes. The Barur project at any rate is a promising work. There is also something remaining to be done to the Pennagoondapuram tank, another famine work. It will be advantageous therefore to constitute a special division for these works, and it may be left to be determined hereafter what the ultimate constitution of the division is to be; for the present one Executive Engineer and upper subordinates for individual works will be needed. For the maintenance of minor irrigation works a grant-in-aid of Rs. 7,500 may be allowed.

16. SALEM DIVISION.—There is nothing in this to make its retention under present circumstances desirable, and it is recommended that it be given up. The two or three incomplete tanks of the Womalore river series which are under repair should be completed before the end of the year.

For the maintenance of minor works a grant-in-aid of Rs. 10,000 may be allowed.

17. COIMBATORE DIVISION.—This, as recently modified, includes the old Coimbatore Division and the part of the Erode Division to the south of the hill country of Collegal. There are many irrigation works of importance, and there is plenty of useful work to be done. It is recommended that there should be two sub-divisions with—

One Executive Engineer.
One Assistant do.

the second sub-division being held by an upper subordinate.

18. SOUTH CANARA AND CALICUT DIVISIONS.—The Irrigation Department has no interest in either of these divisions, though in the latter a small sum has been allowed yearly for the management of two dams for the exclusion of salt-water from irrigated tracts. The average expenditure of the last three years has been Rs. 1,535, and this sum may be continued as a grant-in-aid to be disbursed under the orders of the Collector.

19. TINDIVANAM DIVISION.—This has recently been amalgamated with Cuddalore, but the connection is not desirable or indeed feasible under present circumstances. A small grant-in-aid will be necessary.

20. CUDDALORE DIVISION.—The Irrigation Department can undertake the management of the Pelandorai anicut and of all the works for which individually a continuous record has been ordered to be maintained, and this includes all the tanks connected with them. They are detailed in Proceedings, Madras Government, No. 1,297, dated 16th April 1877, and are as follow:—

Numbers.	Name of River.	Name of Irrigation Work or System.
1	Coleroon.	Lower Anicut.
2	Vellaur.	Shatiatepe Anicut.
3-A	Manimuthanuddy.	Vridhachalam Anicut.
3-B	Do.	Mehmatur Anicut.
3-C	Myorenuddy.	Katumyloor Anicut.
4-A	Guddelum.	Trivady Anicut.
4-B	Do.	Vanamadevy Anicut.
4-C	Do.	Trivandipuram Anicut.
5	Kullar.	Vicravandy Anicut.
6	Pooniar.	Trikalore Anicut.

The necessary superior establishment will be—
One Executive Engineer.
One Assistant do.

Any other irrigation works included in the general area occupied by the above works can likewise be looked after by this establishment.

21. TANJORE AND NEGAPATAM DIVISIONS.—These two divisions have recently been amalgamated, and Government have directed the appointment of a Superintendent of Works for the charge of the whole of Tanjore with a part (so far undefined) of Trichinopoly, and under this officer an Executive Engineer and two Assistant Engineers. It is considered that this organisation is not well suited to the requirements of the Delta, that it will not enable the most to be made of the establishment allowed, and that this establishment is inadequate if the Puttukottai Taluk be retained and provided for. Considering the revenue derived from Tanjore and the profits which have accrued in the last forty years, it would seem to be somewhat illiberal to leave any part of this district neglected. However, the Puttukottai Taluk is a very large one, and would need a good deal of attention, and upon its retention or rejection will depend whether one executive division will suffice, or two will be required. Assuming that Puttukottai is to be left out of consideration,

there will be one division and four sub-divisions and all the latter should be held by Assistant Engineers.

Superior executive establishment required—

Executive Engineer 1.

Assistant Engineers 4.

If Puttukottai be included there will be two divisions and four sub-divisions, and the establishment required will be—

Executive Engineers 2.

Assistant do. 4.

22. TRICHINOPOLY DIVISION.—According to the final issue of the budget of 1879-80 the provision in this division was for—

Minor Original Works.

	RS.	RS.
Irrigation and Navigation	6,000	
Agricultural Drainages	1,000	
Miscellaneous	300	
		7,300

Repairs.

Irrigation and Navigation	44,000
Agricultural—	
River Conservancy	18,000
River Embankments	25,000
Drainages	1,500
Miscellaneous	300
	88,800
	96,100

The irrigated area of the district is—

1877-78, P.M.G., No. 482-I, 1st September 1879.	Acres	207,817
	The revenue	Rs. 7,98,495
	Average rate per acre	3.84

It will not be advisable to abandon this division, but it will be necessary to provide as economical an establishment as possible, and not to include in the division the north-east taluk* in which there are no works of importance; and possibly the extreme south of the district may also be omitted. An Executive Engineer without a sub-divisional officer will then, it is considered, be able to manage the division.

* Woodiyarpolliem.

For minor works maintenance in the parts of the district proposed to be abandoned a grant-in-aid of Rs. 6,000 may be allowed.

23. DINDIGUL AND MADURA DIVISIONS.—There is nothing likely to be done in the Madura District to warrant under present circumstances the retention of an irrigation establishment therein, and it may be abandoned altogether. A grant-in-aid of Rs. 15,000 may be allowed for maintenance of minor works. In the absence of a regular machinery for dealing comprehensively with irrigation in Madura, it is doubtful whether even so much need be provided.

24. SATUR AND TINNEVELLY DIVISIONS.—It is proposed to abandon the Satur Division and the Nanguneri Taluk of the Tinnevelly Division, retaining the rest of the latter which will then embrace the whole of the Tambrapurni irrigation, and nearly all that of its principal tributary the Chittaur. Two sub-divisions will be necessary, and both should be held by Assistant Engineers.

Establishment required—

Executive Engineer 1.

Assistant Engineers 2.

For the minor works maintenance in the abandoned parts of the district a grant-in-aid of Rs. 20,000 may be allowed.

25. It is recommended that the—

Cuddalore Division.

Tanjore Division one or two as the case may be

Trichinopoly do.

Tinnevelly do.

be formed into a second Irrigation Circle under a Superintending Engineer.

The superior establishment of the Circle would be—

1 Superintending Engineer,

4 or 5 Executive Engineers,

7 Assistant Engineers, with

2 Supernumerary Engineers,

to fill vacancies and undertake any special duties required.

26. A third Circle will be required which will comprise the—

Presidency Division, (non-irrigation),

Chingleput do.

Vellore do.

Special works, Oosoor Division.

Coimbatore Division.

Nilgiris do.

Bangalore do.

&c., &c.

} non-irrigation.

27. It is supposed that the establishments of the Irrigation Divisions will be available to carry out, with the aid, if necessary, of special temporary establishments, such work, Imperial or Provincial, as Government may require, *e.g.*, it is understood that a jail is to be built at Palamcottah, and this could be supervised by the Executive Engineer with the assistance of a special Overseer in addition to the petty establishment usually provided from the contingencies of the estimate. In that case a per-centage charge would be made for supervision to the debit of the fund concerned.

28. The following abstract shows the establishment proposed for the two Irrigation Circles and the Irrigation Divisions of a third Circle:—

Circles.	Systems.	Superintending Engineers.	Executive Engineers.	Assistant Engineers.	Sub-Engineers and Supervisors.	Overseers.
1st Irrigation.	Godavari Delta ...	1	2	5	4	8
	Kistna do. ...		2	5	4	8
	Nellore Division ...		1	1	2	3
	Supernumerary ...		...	2	...	...
	Total, 1st Irrigation Circle ...	1	5	18	10	19
2nd Irrigation.	Cuddalore Division ...	1	1	1	1	3
	Tanjore do. ...		1	4	4	8
	Trichinopoly do. ...		1	...	1	3
	Tinnevelly do. ...		1	2	2	4
	Supernumerary ...		...	2	...	...
		1	4	9	8	18
3rd (General).	Chingleput Division ...	1	1	...	2	4
	Vellore do. ...		1	2	2	4
	Oosoor (Special) Division ...		1	...	1	3
	Coimbatore ...		1	1	2	4
	Supernumerary ...		...	1	...	...
		1	4	4	7	15
		2 1/2	13	26	25	52

29. It is not proposed to make any alteration in the budget provision for—

	RS.
(1) Temporary Survey Establishments	15,000
(2) Revenue investigations under Mr. Wilson	13,000

CHEPAUK, (Signed) J. MULLINS, Colonel, R.E.,
8th January 1880. Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department,
through the Chief Engineer, Public Works Department.

No. 10. ORDER THEREON, 3rd February 1880, No. 265 W.

His Grace the Governor in Council concurs generally in the views expressed by the Chief Engineer for Irrigation in the Memorandum read above, but is of opinion that certain modifications in the details of the scheme proposed by that officer will be necessary.

2. The state of the Provincial finances renders a further reduction in the general establishment absolutely necessary, and as the establishment thus reduced will be so small as to render the regulation of appointments and promotions exceedingly difficult, the whole establishment of the Department, Irrigation as well as General, will continue to be borne upon one list for the purposes above mentioned, though the cost will be divided between Irrigation and other Services in accordance with the actual distribution and employment of the establishment.

3. His Grace in Council also considers it essentially necessary that the works of the Godáviri and Kistna Districts should each be under the charge of a single officer with the position of a Superintendent of Works, and this renders necessary some alteration in the arrangements of the Superintending Engineers' charges as proposed by the Chief Engineer for Irrigation.

4. The following alterations will, therefore, be made in the arrangements detailed in the orders read above.

5. The Ganjam and Vizagapatam Divisions will be amalgamated into a single division with three sub-divisions, one of which may be under the charge of the Executive Engineer.

6. The Godáviri District will be organised in the manner, and with the Executive Establishment proposed in paragraphs 4 and 5 of the Chief Engineer's Memorandum with the addition of a Superintendent of Works as ordered in G.O., No. 2,530-W, of 7th October 1879.

7. The Kistna District will be similarly organised as proposed in paragraphs 6 and 7 of the same Memorandum, with the addition of an Executive Engineer as Superintendent of Works.

8. The Kurnool and Cuddapah Divisions will be amalgamated into a single division with head-quarters at Cuddapah, and the Bellary Cantonment attached thereto. This division will consist of four sub-divisions, one of which may be under the charge of the Executive Engineer.

9. The Nellore Division will be re-arranged as proposed in paragraphs 8 and 9 of the Chief Engineer's Memorandum.

10. A Superintendent of Works will be appointed to the charge of the present Presidency and Bangalore Divisions, which will be worked as one division with two sub-divisions, each in charge of a separate Assistant Engineer. The Public Works Stores and Workshops, re-organised as may hereafter be decided on, will be included in this division.

11. The Consulting Architect's establishment will remain as at present.

12. The Buckingham Canal will remain as at present under the charge of a Superintendent of Works, and will be divided into three sub-divisions with an officer or subordinate in charge of each.

13. The Chingleput, North Arcot, South Arcot, Salem, and Coimbatore Districts will be organised as proposed in paragraphs 12 to 17 of the Chief Engineer's Memorandum.

14. The Tanjore District will be re-organised in two divisions as proposed in the latter part of paragraph 21 of the same Memorandum, the appointment of a Superintendent of Works ordered in G.O., No. 3191 A.W., of 12th December 1879, being cancelled. The Trichinopoly and Tinnevely Districts will be organised as proposed in paragraphs 22 and 24, but as it is understood that the Local Fund Board of the former district desire the charge of their works to be retained by the Public Works Department, an establishment somewhat stronger than that proposed by the Chief Engineer for Irrigation will be provided.

15. The West Coast Division will remain as at present, but with the subordinate establishment somewhat reduced, as hereafter described.

16. No Public Works establishment will be maintained in the Bellary or Madura District, with the exception of the Bellary Cantonment which will be worked as a sub-division of the Cuddapah Division in accordance with paragraph 8 of this order.

Godáviri	{ Eastern. Western.
Kistna	{ Eastern. Western.

Nellore.	Coimbatore.
Chingleput.	Tanjore (two).
North Arcot.	Trichinopoly.
South Arcot.	Tinnevely.
Salem.	

Vizagapatam.	Consulting Architect.
Cuddapah.	Buckingham Canal.
Presidency.	West Coast.

17. Of the nineteen divisions thus formed, the fourteen named in the margin will be considered as Irrigation divisions, and the establishment employed therein will be debited entirely to Irrigation, which will, on the other hand, be credited with twenty-five per cent. on the actual cost of all work executed by the Irrigation Staff for other heads of service.

18. The remaining six divisions will be considered Provincial and the cost of establishments employed therein distributed accordingly.

19. For purposes of direction the Presidency will, for the present, be divided into three circles, and it is desirable that these should be so arranged as to facilitate as far as possible a return to the present distribution into five Circles, when the existing financial pressure has passed away. With this object the 1st Circle will include the Vizagapatam, Cuddapah, and Nellore Divisions, the 2nd will include Chingleput, North Arcot, Salem, Coimbatore, and the West Coast, while the 3rd will include South Arcot, Tanjore, Trichinopoly, and Tinnevely.

20. The Godáviri, Kistna, Presidency and Buckingham Canal Divisions being under the charge of Superintendents of Works are not included within the limits of any Circle.

21. One-half the cost of the Superintending Engineer's Establishment of the 1st Circle, three-fourths that of the 2nd Circle, and the whole of that of the 3rd Circle will be charged to Irrigation, the balance being charged to Provincial. Irrigation will also be debited with the cost of the Chief Engineer for Irrigation and his office establishment, and with a sum which will, for the present, be fixed at Rs. 30,000 per annum on account of a share of the general expenses of the Public Works Secretariat. This amount will be open to re-consideration hereafter if necessary.

22. In addition to the officers required for the organisation detailed above, an Executive Engineer and an Assistant Engineer will be provided as Assistants to the Chief Engineers, with one Executive and five Assistant Engineers as supernumeraries or for special work.

23. The subordinate establishments will be considerably reduced, it being intended that even in the divisions in which Public Works establishments are retained those establishments shall only be employed on works of moderate import-

ance, petty and outlying works being executed either by the departments concerned or by the Local Fund establishments, which will doubtless be made available on payment of a fixed per-centage on the value of the work done.

24. With regard to office establishments, His Grace the Governor in Council considers that it is not advisable to introduce the differing scales proposed by the Chief Engineer for Irrigation in his Memorandum under consideration; but that the offices of the Superintending Engineers should be of the strength ordered in G.O., No. 3,674-W, of 18th September 1878, with the addition of a technical Assistant on a salary of Rs. 200 per month, in place of the Engineer Assistants hitherto allowed, and that all Executive and Sub-divisional Officers should come under one of the classes detailed in that order. If additional assistance is required in any particular office, it should be provided for by temporary appointments.

25. The Superintendents of Works will have office establishments of the same strength as those of a 1st-Class Executive Division.

26. Statement No. 1 attached to this order shows the executive establishment of each division, its "class" as regards office establishment, and the number of separate sub-divisional establishments required; it will be seen that the alterations now ordered will involve considerable reductions in the subordinate and office establishments, in addition to those already made, the number of Executive Subordinates being reduced from two hundred, at which it now stands, to one hundred and forty-four.

27. In carrying out these reductions the following course will be adopted.

28. Superintending Engineers will at once complete provisionally, from the establishments now under their orders, the subordinate establishments of the new divisions included in their present Circles. A complete nominal list of the men thus proposed to be provisionally retained, and those in excess of future requirements (as shown by Statement No. 1) of each Circle should be submitted to the Chief Engineer at the earliest possible date; and in the case of men for whom no place can be found on the reduced establishment, but whose services it may be considered specially desirable to retain, a brief statement of the grounds of recommendation should be given.

29. It must be understood that in the case of subordinates the lists thus prepared are only provisional, and the Chief Engineer will exercise his discretion in transferring specially deserving men in excess of the requirements of one Circle to fill places in another.

30. If in any Circle there should be an insufficient number of subordinates of any grade to make up the required establishment, the vacancies are not to be filled up but reported to the Chief Engineer.

31. Subordinates who remain finally in excess of the requirements of the department will be discharged from the 29th February, the sanction of the Government of India having been accorded to the grant to such men of the concessions allowed by the Government of India Resolution of the 31st July 1879, No. 2079.

32. Superintending Engineers are requested to encourage by every means in their power the voluntary retirement or transfer to Local Fund Establishments of subordinates and especially of Overseers serving under them.

33. With regard to office establishments the same principles will be followed, save that Superintending Engineers will complete their establishments without

*G.O., No. 2,435 W., dated 25th Sept. 1879.

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"	2,530 W.	"	"	"
"	3,191 A.W.	"	12th Dec.	"
"	3,194 A.W.	"	"	"
"	3,218 W.	"	15th "	"

further reference to Government, men whose services are not required being discharged,—those whose names appeared in lists (b) referred to in the Government orders quoted in the margin*, from the 29th February, those whose names appeared in list (a) from the 31st March. Complete lists of all men thus discharged should be forwarded for the information of Government.

34. The office establishment of the future Superintending Engineer, 1st Circle, will be dealt with by the Superintending Engineer, 2nd Circle, in communication with the Superintending Engineer, 1st Circle; that of the future 2nd Circle, by the present Superintending Engineer, 3rd Circle, in communication with the Superintending Engineer, 4th Circle; and that of the future 3rd Circle by the present Superintending Engineer, 5th Circle. The office establishments of the Superintendents of Works, Godáviri and Kistna, will be organised by the present Superintending Engineer, 1st Circle, and that of the future Presidency Division by the Superintending Engineer, 3rd Circle.

35. In addition to the reductions now ordered in the divisional and circle establishments, the strength of the Secretariat and Accounts Offices will also be reduced; these offices as well as that of the Public Works Stores and Workshops will be separately dealt with.

36. The Government of India will be addressed as to the mode of dealing with the officers named in the margin, who* are now on special leave, and of those† temporarily transferred to military duty; in the mean time the services of the latter will be definitely replaced at the disposal of the Military Department, and their names struck off the strength of the Public Works establishment from the 29th February, unless the Government of India are prepared to provide them, as they will be requested to do, with suitable employment in the Public Works Department.

*	{	Lieutenant-Colonel Hunter, Executive Engineer, 1st grade.
		Lieutenant-Colonel Burton, Executive Engineer, 1st grade.
†	{	Major Smalley, Executive Engineer, 1st grade.
		Major Ross-Thompson, R.E., Executive Engineer, 2nd grade.
	{	Lieutenant Dobson, R.E., Executive Engineer, 4th grade.
		Lieutenant Dorward, R.E., Executive Engineer, 4th grade.
	{	Lieutenant Rawson, R.E., Executive Engineer, 4th grade.
		Lieutenant Boddy, Assistant Engineer, 1st grade.
	{	Lieutenant Hamilton, R.E., Assistant Engineer, 1st grade.
		Lieutenant Henderson, R.E., Assistant Engineer, 1st grade.
	{	Lieutenant Langley, R.E., Assistant Engineer, 1st grade.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Government, P.W.D.

To the Chief Engineer for Irrigation.

"	Superintending Engineers.
"	Examiner of Public Works Accounts.
"	Military Department.
"	Revenue Department.
"	Financial Department.
"	Inspector-General of Jails.
"	Do. of Police.

No. 1.

STATEMENT showing Strength of Officers and Subordinates required for each Division.

	Class.	No. of Sub-Divisions.	Superintendents of Works.	Executive Engineers.	Assistant Engineers.	Sub-Engineers and Supervisors.	Overseers.
<i>Irrigation.</i>							
✓ Godavari—Eastern	I	3	1	1	2	2	4
✓ Do. Western	I	2		1	3	2	4
✓ Kistna—Eastern	I	3	1	1	3	2	4
✓ Do. Western	I	2		1	2	2	4
✓ Nellore	II	1	...	1	1	2	4
✓ Chingleput	II	2	...	1	...	2	4
✓ North Arcot	II	2	...	1	2	2	4
✓ Salem	III	...	...	1	...	1	3
✓ Coimbatore	II	2	...	1	1	2	4
✓ South Arcot	I	1	...	1	1	1	3
✓ Tanjore—Northern	I	2	...	1	2	3	6
✓ Do. Southern	II	2	...	1	2	2	4
✓ Trichinopoly	II	1	...	1	1	2	6
✓ Tinnevely	I	2	...	1	2	2	4
Secretariat and Supernumeraries ...	...	...	...	1	4	2	6
...	...	25	2	15	26	29	64
<i>Provincial.</i>							
✓ Vizagapatam	III	2	...	1	1	3	4
✓ Cuddapah... ..	II	3	...	1	1	3	9
✓ Presidency	I	3	1	...	3	3	7
✓ Consulting Architect	Special.	...	...	1	...	...	...
✓ Buckingham Canal	I	3	1	...	1	2	4
✓ West Coast	II	3	...	1	2	3	9
Secretariat and Supernumeraries ...	...	...	...	1	2	1	3
...	...	14	2	5	10	15	36
Irrigation	...	25	2	15	26	29	64
Provincial	...	14	2	5	10	14	36
...	...	39	24		36	44	100



GENERAL
ESTABLISHMENT.

Govt. of (1880) Madras.
PUBLIC WORKS.

To
THE CHIEF ENGINEER FOR IRRIGATION,
&c., &c., &c.

Dated, February 3rd.

Issued.

Recd.

Encl.

G. O., 3rd February 1880, No. 265 W.

FEBRUARY.

Nos. 9-10.

In A. 2192

GOVERNMENT OF MADRAS.

PENSION DEPARTMENT.

26th November 1880, No. 1149.

Bonuses.

Read the following paper :—

From Major D. H. TRAIL, R.E., Officiating Examiner of Public Works Accounts, to the Secretary to Government, Pension Department, dated Madras, 11th October 1880, No. 500-X.

With reference to Proceedings of the Madras Government in the Pension Department, printed with G.O., No. 901, dated 9th September 1880, I have the honor to forward herewith two statements on account of pay in lieu of notice admissible under Section 59, Rule 2, of the Civil Pension Code, to members of the office and lower subordinate establishment employed in the 2nd Circle, and request that the same may be sanctioned and forwarded to this office on an early date.

2. The circumstances under which this additional gratuity becomes due will be found fully explained in paragraphs 31 and 33 of G.O., No. 265-W, dated 3rd February 1880, copy attached, when all Superintending Engineers were directed to dispense with the services of all extra establishment from certain dates.

ORDER THEREON, 26th November 1880, No. 1149.

The disbursement of the bonuses to the individuals entered in the list submitted by the Examiner of Public Works Accounts is approved and sanctioned.

(True Extract.)

Under Secy. to Govt.

To the Accountant-General, with list.
" Examiner of Public Works Accounts.
" Superintending Engineers, 2nd and 3rd Circles.
" Collector of Trichinopoly.
" " of Coimbatore.
" " of North Arcot.
" " of Salem.
" " of South Canara.

Exd. T. O'Connor.

10017B

FROM MAJOR D.H. TRAIL R.E.

OFFG. EXAMINER P.W. ACCOUNTS,

MADRAS.

TO THE SECRETARY TO GOVERNMENT,

PENSION DEPARTMENT.

NO. 500X

MADRAS, 11th OCTOBER 1880.

SIR,

2 Encls.

WITH REFERENCE TO PROCEEDINGS OF THE MADRAS GOVERNMENT IN THE PENSION DEPARTMENT, PRINTED WITH G.O. NO. 901, DATED 9TH. SEPTEMBER 1880, I HAVE THE HONOR TO FORWARD HERewith TWO STATEMENTS ON ACCOUNT OF PAY IN LIEU OF NOTICE ADMISSIBLE UNDER SECTION 59 RULE 2 OF THE CIVIL PENSION CODE TO MEMBERS OF THE OFFICE AND LOWER SUBORDINATE ESTABLISHMENT EMPLOYED IN THE 2ND. CIRCLE, AND REQUEST THAT THE SAME MAY BE SANCTIONED AND FORWARDED TO THIS OFFICE ON AN EARLY DATE.

2. THE CIRCUMSTANCES UNDER WHICH THIS ADDITIONAL GRATUITY BECOMES DUE WILL BE FOUND FULLY EXPLAINED IN PARAS 31 AND 33 OF G.O. NO. 265 W. DATED 3RD. FEBRUARY 1880, COPY ATTACHED, WHEN ALL SUPERINTENDING ENGINEERS WERE DIRECTED TO DISPENSE WITH THE SERVICES OF ALL EXTRA ESTABLISHMENT FROM CERTAIN DATES.

I HAVE THE HONOR TO BE ,

SIR,

YOUR MOST OBEDIENT SERVANT.

Mary

FOR OFFG. EXAMINER P.W. ACCOUNTS.

9B

