(1) Number of pages 62.

(2) Date of repair 10-6.87.

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# TAMIL NADU ARCHIVES

## GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

| | | |
|---|---|---|
| G.O. No.<br>B.P. No. | 1007-w. | Press.<br>Mis. |
| | 2.4.1883 | |
| Dated | ~~10.6.1883~~ | 19~~8~~. |

k.m.k.

*Not to be folded or roughly handled*

Archives I--10,006 I -80.

2nd April 1883, No. 1007 W., Public Works.

1/1007

## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following papers :—

From J. W. RUNDALL, Esq., Superintending Engineer, Second Circle, to the Chief Engineer for Irrigation, dated Masulipatam, 31st October 1882, No. 1470 K.S.

With reference to your memorandum, No. II-139 K.S., dated 22nd December 1881, I have the honor to forward herewith revised statements of the existing and proposed Conservancy and Navigation establishments of the Kistna Delta System in the forms printed with G.O., No. 36 I., dated 14th January 1878. The establishment sanctioned for the Nallawada Lock in G.O., No. 846 I., of 9th December 1881, has been included under "proposed establishment," as the sanction of the Government of India to the same has not as yet been received.

- One statement showing distribution of Irrigation Establishment.
- One tabular statement of the Anicut and Conserservancy Establishment as existing and as proposed.
- One statement showing distribution of Navigation Establishment.
- One tabular statement of do. as existing and as proposed.
- One abstract showing the totals of the Conservancy Establishment.

2. The proposals requiring sanction are—

### Irrigation Establishment.

*Permanent.*

(1.) The grading of the Anicut establishment, for which average salaries alone are entered in the tabular statement herewith, and the increase of the salary for the Assistant Anicut Superintendent, both resulting in an increase of Rs. 18.

It will be seen that I have proposed to alter the salaries of the Anicut Superintendent and Assistant Anicut Superintendent from the present fixed sums of Rs. 100 and Rs. 30, respectively, to salaries rising from Rs. 100 to Rs. 120 and from Rs. 30 to Rs. 40. Sanction has already been given to the Anicut Superintendent to draw Rs. 120 from 1st April 1882. I would request sanction to the Assistant Anicut Superintendent, a valuable servant of twenty-nine years' service, being permitted to draw the maximum. Future incumbents should get increments of Rs. 4 and Rs. 2 every alternate year till the maximum is reached.

(2.) The entertainment of one Irrigation Clerk, Fifth Class, First Grade, in the Kistna Eastern Division, for whom also an average salary of Rs. $17\frac{1}{2}$ has been entered in the tabular statement. This Clerk is required to keep the Irrigation accounts. It is believed that such Clerks are allowed in the Godávari District.

(3.) The redistribution in the scale of lascars and a reduction of five in the number of individuals as detailed below, resulting in a decrease of Rs. 32 :—

+ 1 Lascar for Komatigunta weir in the Eastern Division.
— 6 Tappal lascars in the Western Division.

— 5 Net decrease.

(4.) Only a sum of Rs. 15 has been entered under Travelling Allowance as only one Delta Superintendent is entitled to it, because he was drawing the same before the new rules came into force. This involves a decrease of Rs. 47.

*Temporary.*

(5.) The abolition of one Temporary Superintendent for six months sanctioned for Nallawada calingulah, and one lascar, second grade, sanctioned for Komatigunta weir, and the proposal to employ three more lascars, third grade, at Vellatúr, Penumúdi, and Kollúr weirs, resulting in an increase on the whole of one rupee. The post of Superintendent at Nallawada surplus sluice is not required, as, since the construction of the Nallawada lock, the Lock Superintendent looks after the surplus sluice also.

### NAVIGATION ESTABLISHMENT.

(6.) The redistribution and the increase of one Lock Superintendent (in addition to the one sanctioned for the Nallawada lock) proposed for Pamarru lock, where one will be required, as there is likely to be much work shortly when the completion project is begun.

(7.) The redistribution and an addition of nine lascars as under. This would involve an increase of Rs. 52 :—

+ 2 more lascars for Virunki lock.
— 2 lascars at Tidal lock (Eastern Division).
+ 10 more lascars at one for each of the locks at (1) Pamarru, (2) Tidal Lock (Western Division), (3) Jagarlamudi, (4) Kuchipudi, (5) Jutur, (6) Nallavada, (7) Kollimerla, (8) Nallawada, (9) Santaravur, and (10) Ellore.
— 1 Lascar at Bank Canal.

9 Net increase.

(8.) The employment of a Traffic Superintendent at Ellore on Rs. 12, whose temporary employment was sanctioned in G.O., No. 1639 W., of the 28th June 1882. I have added one lascar, who is required, as the Traffic Superintendent has to remit money to the treasury.

(9.) Also the entertainment of a Boat Clerk, Fifth Class, First Grade, at the Anicut Office, Bezváda, on an average salary of Rs. 17½.

3. Summing up the above proposals, it will be seen that a sum of Rs. 38½ can be transferred from Water Regulation to Navigation Establishment.

*Irrigation.*

| | | RS. |
|---|---|---|
| 1. Anicut Establishment | ... ... | + 18 |
| 2. Irrigation Clerk | ... ... ... | + 17½ |
| 3. Lascars Establishment | ... ... | — 32 |
| 4. Travelling Allowance | ... ... | — 47 |
| Net Saving ... | — 79 + 35½ = | 43½ |

*Navigation.*

| | | RS. |
|---|---|---|
| 6. Lock Superintendents | ... ... | + 22 |
| 7. Lascars Establishment | ... ... | + 52 |
| 8. Traffic Superintendent | ... ... | + 12 |
| 9. Boat Clerk | ... ... ... | + 17½ |
| Amount required | ... ... | + 103½ |
| Deduct amount that can be transferred from Irrigation ... | | — 43½ |
| Net sum required per mensem. | | + 60 |
| Per annum | ... ... ... | 720 |
| 5. Add Temporary Establishment at 1 rupee for six months | ... | 6 |
| Total ... | | 726 |

4. The number of lascars for each grade has been calculated as ordered in paragraph 6 of the Irrigation Chief Engineer's memorandum, No. 50 K.S., dated 22nd July 1877, printed at page 2 of G.O., No. 36 I., dated 14th January 1878.

5. The above proposals would involve a net increase of Rs. 450 as follows :—

| | RS. |
|---|---|
| Increase required as per abstract statement herewith ... ... ... | 726 |
| Deduct for Nallawada lock at Rs. 23 per mensem already sanctioned by Government ... ... ... ... ... ... ... ... | 276 |
| Net sum required ... | 450 |

which I request you will be good enough to recommend for the sanction of Government.

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2/1007

## No. 69 E.W.

*Note by the Acting Chief Engineer for Irrigation.*

With the above letter the Superintending Engineer, Second Circle, submits statements of proposed Conservancy and Navigation establishments for the Kistna Delta, which have been prepared after communication with this office.

2. The sanction of the Government of India to the establishment at Nallawada lock is not required, and the establishment should be therefore included under "Present Scale" and the increase of "Proposed Scale" reduced accordingly.

3. The pay of the Anicut Superintendent is Rs. 100, but under G.O., No. 2457 W., dated 6th October 1881, the present Superintendent is permitted to draw Rs. 120. The Superintending Engineer proposes a graded scale of pay for the Superintendent and Assistant Superintendent in future, the former to range from Rs. 100 to Rs. 120 and the latter from Rs. 30 to Rs. 40, and further recommends that the present Assistant Superintendent, who has twenty-nine years' good service, should now receive the maximum pay, future incumbents receiving increments of Rs. 4 and Rs. 2 every alternate year till the maximum is reached. While prepared to recommend the Assistant Superintendent should, in recognition of his services, receive Rs. 40 a month, I think it unadvisable to fix the maximum of the Anicut Superintendent's pay at Rs. 120, the amount that he at present draws. The objection to fixed pay for these appointments is that the class of men we require and get is the same as that from which we draw our Upper Subordinates, and, while the position is a more responsible one than that held by many Upper Subordinates, the Anicut Superintendent finds himself distanced by men of his own standing, and, having reached his maximum pay, has no inducement to further exertion. I am disposed to think the pay of Anicut Superintendent and Assistant should stand at Rs. 100 and Rs. 30 respectively, and the incumbents should be considered eligible for a personal allowance in addition to the pay, if recommended, without fixing any limit to such allowance. This arrangement would render the budget provision liable to fluctuation, but it would enable us to retain the services of men whose experience may be worth paying for and be an incentive to the men to further exertion. I recommend that the pay for next year of these two appointments should be Rs. 120 and Rs. 40 respectively.

4. I support the recommendation of the Superintending Engineer to appoint an Irrigation Clerk, Fifth Class, First Grade, in the Kistna Eastern Division, and his proposals as regards lascars; also that the appointment of Traffic Superintendent at Ellore aqueduct should be permanent instead of temporary.

5. As the Delta Superintendent's travelling allowance is a fixed sum, the duties of a Delta Superintendent requiring him in every instance to travel, the saving on this item seems to be properly shown as a saving on the cost of establishment.

6. The statement of proposed establishment corrected in accordance with the above remarks is forwarded to the Chief Engineer, Public Works Department, for entry in the budget, the cost of Water Regulation and Navigation establishment being a charge against Provincial Funds.

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

5th December 1882.

To the Chief Engineer, Public Works Department.

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ORDER—dated 2nd April 1883, No. 1007 W., Public Works.

The Government concur with the Chief Engineer for Irrigation as to the propriety of raising the pay and status of the Anicut and Assistant Anicut Superintendent of the Kistna and would be glad to bring them on the regular Upper Subordinate Establishment of the Department if the scale admitted of this being done. This, however, is not practicable at present. The pay of the posts will be fixed at Rs. 120 and Rs. 40 respectively, subject to revision.

The following revised scale of permanent establishment is sanctioned with effect from the 1st April, the requisite provision having been made in the budget for 1883-84 :—

### KISTNA DELTA SYSTEM.

*Water Regulation Establishment.*

| | | RS. |
|---|---|---|
| 1 | Anicut Superintendent | 120 |
| 1 | Assistant do. | 40 |
| 1 | Clerk, Fifth Class, First Grade | 17½ |
| 1 | Do. do. Second Grade | 12½ |
| 3 | Delta Superintendents | 70 each. |
| 3 | Do. | 55 „ |
| 8 | Do. | 40 „ |
| 18 | Lascars | 8 „ |
| 18 | Do. | 7 „ |
| 26 | Do. | 6 „ |
| 27 | Do. | 5 „ |
| 1 | Irrigation Clerk, Fifth Class, First Grade | 17½ „ |

*Navigation Establishment.*

| | | |
|---|---|---|
| 3 | Lock Superintendents | 15 each. |
| 7 | Do. | 12 „ |
| 10 | Do. | 10 „ |
| 14 | Lascars | 8 „ |
| 14 | Do. | 7 „ |
| 21 | Do. | 6 „ |
| 22 | Do. | 5 „ |
| 2 | Traffic Clerks | 12 „ |
| 1 | Boat Clerk, Fifth Class, First Grade | 17½ „ |

This sanction has been registered as Provincial No. 3 W. of 1883-84 and classified as Establishment, Permanent.

The temporary establishment is sanctioned as follows :—

### KISTNA DELTA SYSTEM.

*Water Regulation Establishment.*

| | | RS. |
|---|---|---|
| 2 | Superintendents | 10 each. |
| 1 | Lascar | 8 |
| 22 | Lascars | 6 each. |
| 2 | Do. | 5 „ |

and the requisite funds will be allotted from the grant for temporary establishment for 1883-84 on the Superintending Engineer reporting the amount that will be required.

This sanction has been registered as Provincial No. 4 W. of 1883-84 and classified as Establishment, Temporary. It will remain current till the end of the official year 1883-84.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, Second Circle.
„ Chief Engineer for Irrigation.
„ Examiner of Public Works Accounts.

Exd. J. W. Fischer.
Spare Copies

GENERAL.
ESTABLISHMENT.

# Govt. of (1883) Madras.

## PUBLIC WORKS.

*Dated April, 2nd.*

*Recd.* *Encl.*

**G.O., 2nd April 1883, No. 1007 W.**

**APRIL.**

**Kistna Delta System**

*Scale of Conservancy, Navigation, &c., Establishments for the —.*

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W/1007

W/1007

# GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

14th January 1878, No. 36 I.

Irrigation
Establishment.

Read the following paper :—

No. 50 K.S.

No. 32. IRRIGATION—MEMORANDUM.

WITH reference to the letter, No. 28, of the 21st May last, from the Superintending Engineer, Kistna, the undersigned has the honor to say that he thinks had Major Hasted seen Proceedings, Madras Government, No. 1,038, of the 22nd April 1874, his proposals for the revision of the Kistna Delta Conservancy Establishments would perhaps have been considerably modified. A copy of those Proceedings, Madras Government, is now forwarded, and the undersigned regrets that they were not communicated in the first instance. He some time since directed that all Proceedings, Madras Government, connected with Delta arrangements and management should be sent to both the Kistna and Godavery.

2. It will be seen that in the Godavery there are now only three grades or classes of Delta Superintendents, the pay being—

| | RS. |
|---|---|
| 1st Class ... ... ... ... ... ... ... ... ... | 70 |
| 2nd " ... ... ... ... ... ... ... ... ... | 55 |
| 3rd " ... ... ... ... ... ... ... ... ... | 40 |

and as for good reasons or after due consideration it was decided to do away with the 4th class there the Kistna Superintendents should, it is thought, be similarly dealt with.

3. In the next place the Superintending Engineer proposes to employ 19 Delta Superintendents instead of 10 the present number. It is not clear on what data Major Hasted has based his proposals. In the Godavery it will be seen that 25,000 acres of irrigation have been deemed a reasonable charge for a Superintendent, and should this basis be found suitable to the Kistna, the ultimate number would be about 19, and this number would be much too large for present requirements though, during the development of irrigation and until distribution arrangements have been got into working order, it is probable that the area which can be looked after properly by a Superintendent will be considerably less. Perhaps then twelve Superintendents, which would make the average area something under 26,000 acres, would be suitable, but the best plan will be to fix the charges and show the acreage under each canal or principal distributary in each thus—

| Delta. | Delta Superintendents. | Delta Superintendent's Charges. | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Canals. | Miles. | Acres. | Distribution Channels. | Miles. | Acres. | Total Mileage. | Total Acreage. | |
| Eastern ... | No. 1. | | | | | | | 59 | 18,633 | |
| Do. ... | No. 2. | | | | | | | | | |

*N.B.*—The acres against canals will be direct irrigation which added to that against distributaries will be the whole acreage under a canal.

There are many circumstances tending to prevent equalization of charges, and so, though desirable in the abstract, it is only necessary to consider this point so far as may be conveniently practicable. It may be found advisable to consider not only the present charges of Delta Superintendents, but the ultimate charges also, as in this way all important points will be likely to receive full attention.

4. The undersigned does not think that regulating works in the Delta should be entrusted to lascars temporarily entertained, and permanent lascars accustomed and trained to the management of gear should be detailed for the time required to the Komatigunta and Weyyur weirs.

5. It is not clear that Delta Superintendents require two lascars each. One may be needed for measurements, examination of aprons under water, &c., and similar work. The Superintending Engineer is requested in resubmitting his proposals to explain the intention.

6. It is thought that it will be desirable to give some encouragement to deserving lascars by affording some more favorable chance of promotion by means of grading. Two-tenths of the whole number might be Head lascars at 8 Rupees, two-tenths lascars at 7 Rupees, three-tenths lascars at 6 Rupees, and three-tenths lascars at 5 Rupees.

7. The undersigned concurs with the Superintending Engineer in considering that Irrigation and Navigation Establishments should be kept quite distinct.

8. With regard to the Delta Tappal lascars the weak point in the proposed arrangements seems to be that the men will have far too little to do; the necessity for a regular tappal at any rate during the irrigation season is recognized, but apparently these lascars' definite work will be confined to some three hours a day. Plantation work is somewhat casually referred to as a means of affording useful employment, but in some way or another it is certainly desirable that definite work which can be examined should be cut out for them so as to keep them occupied for seven or eight hours a day at any rate.

9. It is understood that Channel Superintendents will in due course be abolished. There appear to be 16 lascars for 3 Channel Superintendents in the Western Delta. If these Superintendents are engaged for six months only it is not clear why the abolition should not take place at once.

10. It is observed that the number of Lock Superintendents is to be reduced from 18 to 15, and that of the latter number one is to be of the 1st grade, Rupees 15, seven at Rupees 12, and seven at Rupees 10. In looking over Statement B there does not appear to be any reason why the Superintendents of the higher grade should be posted to the particular locks on which they are now employed, and if so the Superintendents might be graded and distributed as the Superintending Engineer thinks fit. It may be well to make two-tenths 1st grade, four-tenths 2nd grade, and four-tenths 3rd grade, or of 15 Superintendents—

Except perhaps Dugirala, as here there is a double charge.

| | Rs. |
|---|---|
| Three 1st grade ... ... ... ... ... ... ... ... | 15 |
| Six 2nd " ... ... ... ... ... ... ... ... | 12 |
| Six 3rd " ... ... ... ... ... ... ... ... | 10 |

There will then be better opportunity of rewarding the deserving.

11. With regard to the establishments generally some useful hints may perhaps be obtained from the Conservancy Establishment Appendix of the Budget.

27th July 1877. (Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

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No. 32-A. From Major J. O. HASTED, R.E., Superintending Engineer, Kistna, to the Chief Engineer for Irrigation, dated Masulipatam, 20th November 1877, No. 153.

With reference to your memorandum No. 50 K.S., dated 27th July 1877, I have the honor to forward herewith revised statements of proposed Conservancy Establishments and Navigation Establishment in the form suggested.

1 Statement of Anicut and Conservancy Establishment.
1 Statement of Navigation Establishment.
1 Abstract of do. do.
1 List of Petty Establishment.
1 Statement of Delta Superintendent's charges.

2. It is very difficult in the present state of the irrigation to fix satisfactory charges, proportionally as regards acreage, to the extent that has been fixed as the limit of Delta Superintendent's charges in the Godavery Delta. The enclosed statement shows the most satisfactory arrangements which, after much consideration, I can suggest; but as the irrigated area extends, these arrangements must be modified, and the labor entailed in distribution will be but slightly increased, when the improved distributing channels are carried out.

3. I now propose an establishment of nine Delta Superintendents in the Eastern Delta, and five in the Western Delta. If irrigation from Delta Canals only were taken into account, I could have managed with eight in the Eastern Delta; but I have added one for Divi and the eastern bank, as during river floods the management of river channels requires supervision, and this part of the Delta is situated so that the Overseer cannot readily visit it.

4. The Delta Superintendents are graded, in the proportion you have recommended, as far as possible. Travelling allowance is entered only for those who, under former rules, were allowed it.

5. As regards the temporary establishment or that proposed to be entertained only for six months of the year, these men are in continued employment in reality, as when not engaged on the distributing works they are employed on works, their pay being charged to those works. The so-called temporary appointments are stepping stones to permanent appointments, and it seems to me that it would be better to continue this arrangement than to increase the charge to establishment.

6. I am disposed to think that two lascars are necessary for each Delta Superintendent. The Superintendent requires one to be constantly with him in examination of sluices and channels and frequently may require to detach one to see that the arrangements for other channels have not been interfered with by the cultivators. Towards the close of the season, especially, when water is running low in the channels, it is necessary to fix dates on which to open and close certain sluices, and in carrying out this distribution no assistance can be looked for from the cultivators.

7. The lascars have been graded as suggested by you, the distribution of the grades being purposely left to the Superintending Engineer, as it does not seem convenient that this distribution should be made once for all.

8. The Tappal lascars I proposed should undertake the maintenance of plantations at their locks or head-quarters and one mile on either side. Hitherto these portions of the banks have been attended to by the Lock Establishment, which is now to be reduced. Where it has been necessary to employ mile men for the plantations, I have allowed one man to every two miles, but as the Tappal men will have to travel about 12 miles a day, they will only be able to devote a portion of their time to other work, and I think one mile of canal lanka will give them ample occupation.

9. Arrangements for the reduction of the present Channel Superintendents will be carried out as quickly as possible.

10. Lock Superintendents have, as suggested, been graded, and as far as possible the most important charges will be kept under those of the higher grades.

11. I trust that the entertainment of maistries on the Petty Establishment will be sanctioned in this as in the Godavery Delta. I would propose one maistry to each delta on river works, two in the Western Delta, and three in the Eastern Delta, (as per enclosed list) graded thus:—

| | RS. |
|---|---|
| Two 1st grade ... ... ... ... ... ... ... ... | 30 |
| Two 2nd ,, ... ... ... ... ... ... ... ... | 25 |
| Three 3rd ,, ... ... ... ... ... ... ... ... | 20 |

There are a few maistries whose services are worth retaining for whom there has been a difficulty in finding continual employment, and I believe some good men whom we could only employ occasionally have gone from here to the Godavery Delta.

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## No. 279 I.

No. 32-B. *Note by the Chief Engineer for Irrigation.*

IN May last the Superintending Engineer, Kistna, transmitted, with reference to the reduction of Navigation Establishments which had been decided upon, a revised scale of Conservancy and Navigation Establishments; but as unfortunately Proceedings, Madras Government, No. 1,038, of the 22nd April 1874, in which for the Godavery revised arrangements of Conservancy Establishment had been settled, had not been communicated to him, it was considered desirable that he should be afforded an opportunity of reconsidering his proposals with a view to the introduction of uniformity of system, so far as the circumstances might render this applicable. Major Hasted has accordingly with his letter, No. 153, of the 20th ultimo, forwarded a revised scheme as explained in his letter and in the accompanying statements.

Superintending Engineer's No. 28, 21st May, 1877.

Proceedings of Madras Government, 6th May 1876, No. 1,115 A.

2. The arrangements recommended for sanction provide for the grading of all descriptions of Delta Establishments. The Delta Superintendents, upon whose efficiency the satisfactory management of the irrigation largely depends, are proposed to be graded to correspond with the similar appointments in the Godavery.

3. The last modification of Delta Establishments authorised for the Kistna was sanctioned in G.O., No. 1,595, of the 15th June 1871, and was intended to assimilate the system to that then prevailing in the Godavery. The modifications, which were to be introduced as opportunity occurred, have only been partially carried out:—

| — | In 1871. | Modification sanctioned in 1871. | At present. | |
|---|---|---|---|---|
| Delta Superintendents ... | 3 | 19 | 10 | |
| Navigation do. ... | 2 | .. | .. | |
| Channel do. ... | 40 | ... | 27½ | |
| | 45 | 19 | 37½ | |

The cost of the revised establishment was to be the same as that of the establishment it was to supersede.

The lowest rate of pay for a Delta Superintendent was to be Rupees 30, and as often as this amount has become available by the occurrence of vacancies in the list of Channel Superintendents, the Superintending Engineer has appointed an additional Delta Superintendent.

4. In G.O., No. 1,038, of the 22nd April 1874, it was decided to do away with the 4th grade of Delta Superintendents in the Godavery, the rate of pay Rupees 30 a month being considered insufficient to secure the services of men of the required character and qualifications, and three grades at 70, 55 and 40 Rupees a month respectively were established. The revised scale for the Kistna Delta is based upon the same grading, and with reference to the acreage to be supervised and supplied fourteen Superintendents, viz., nine for the Eastern, and five for the Western Delta, are proposed to be employed. A statement showing the charge of each Superintendent is appended, and the charges have been drawn up with reference to the recently established Executive Divisions and Sub-divisions which have superseded the old ranges. Channel Superintendents will be entirely abolished as soon as the revised scale comes into operation, and it is recommended that the 1st April 1878 be the date fixed.

5. The other changes proposed are the reduction of establishment under the head of Navigation, the grading of the Lock Superintendents, the grading of lascars, and the introduction of a separate Tappal Establishment under irrigation. At present the water reports which are indispensable, and the various communications between the Canal officers and subordinates are transmitted daily by lock lascars, but on the reduction of the numbers of the latter it will be necessary to employ tappal lascars whose primary work will involve the carriage of the post bags twelve miles daily, and whose spare time will be devoted to the canal plantations for a distance of one mile above and below their respective head-quarters.

6. It is intended to leave it discretional with the Superintending Engineer to locate individuals irrespective of their grading, and therefore while in the tabular statement the distribution is given the amounts are shown against classes, and not against the distribution. Practically this system of distribution is generally followed, and at the instance of the Examiner of Public Works Accounts it is proposed to formally recognize it, as it is not desirable that the transfer of a man on promotion should even be supposed to be necessary, if the interests of the public service make his retention in the same locality more convenient.

7. The general results of the proposed revision are under—

Conservancy Establishment—Irrigation.

| | | RS. |
|---|---|---|
| Permanent Establishment per month, Rupees 153, yearly ... ... | | 1,836 |
| * Temporary ,, (6 months) ,, 27, ,, ... ... | | 177 |
| Increase ... | | 2,013 |

Navigation Establishment.

| | | |
|---|---|---|
| Permanent Establishment per month ... ... RS. | 163 | |
| Yearly Decrease ... | | 1,956 |
| Net Increase yearly ... | | 57 |

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* Proposed.

| | | |
|---|---|---|
| 168 × 6 months | | .. 1,008 |
| Present. | | |
| 15 × 5 months | 75 | |
| 126 × 6 ,, | 756 | |
| 141 | | 831 |
| 27 | | 177 |

It is believed that the proposed changes will increase the efficiency of the establishment and will also make the amount chargeable to Navigation on this account more correctly ascertainable. The present scale was, as regards cost, sanctioned in 1865 and 1867, and since the former date the revenue from water-rate and miscellaneous items has risen from Rs. 5,34,979 to Rupees 8,90,598, or probably more as the latter figures are for 1874-75.

Proceedings of Madras Government, 28th July 1876, No. 1,923.

8. The Superintending Engineer asks that, as in the Godavery, the employment of some maistries from the provision for petty establishment may be sanctioned, and the undersigned considers that their services should be allowed. Two are to be employed on river work, which is important and has received hitherto too little attention, and five on general duties, and the numbers in the several grades are—

| | RS. |
|---|---|
| Two of the 1st grade, at ... ... ... ... ... ... ... | 30 |
| Two „ 2nd „ „ ... ... ... ... ... ... ... | 25 |
| Three „ 3rd „ „ ... ... ... ... ... ... ... | 20 |

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

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

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*Tabular Statement of the Navigation Establishment of the Kistna Delta as existing and as proposed.*

| No. and date of Order. | Office to which the Proposition refers. | Nature of Charge. Present Scale. | | | Nature of Charge. Proposed Scale. | | | Proposition. Permanent. Increase per month. | Proposition. Permanent. Decrease per month. | Proposition. Temporary. Period. | Proposition. Temporary. Increase per month. | Proposition. Temporary. Period. | Proposition. Temporary. Decrease per month. | Grounds of Proposition. | Local Government's recommendation. | Orders of the Government of India. P. W. Department. Remarks. | Orders of the Government of India. Financial Department. Remarks. | Orders of the Government of India. Financial Department. Orders. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G.O., No. 1,115 A, dated 6th May 1876. | | *Eastern Delta.* | | RS. | | | RS. | RS. | RS. | | RS. | | RS. | | | | | |
| | | 3 Lock Superintendents at 15 Rs. each ... ... | 45 | | 3 Lock Superintendents, 1st grade, at 15 Rs. each ... ... ... | 45 | | | | | | | | | | | | |
| | | 2 Do. at 12 Rs. each ... | 24 | | 7 Do. do., 2nd grade, at 12 Rs. each ... ... | 84 | | | | | | | | | | | | |
| | | 4 Do. at 10 „ „ ... | 40 | | 6 Do. do., 3rd grade, at 10 Rs. each... ... | 60 | | | | | | | | | | | | |
| | | 30 Lascars at 6 „ „ ... | 180 | | 12 Lascars, 1st grade, at 8 Rs. each ... ... | 96 | | | | | | | | | | | | |
| | | 16 Do. at 5 „ „ ... | 80 | | 12 Do., 2nd grade, at 7 Rs. each ... ... | 84 | | | | | | | | | | | | |
| | | | 369 | 369 | 16 Do., 3rd grade, at 6 Rs. each ... ... | 96 | | | | | | | | | | | | |
| | | *Western Delta.* | | | 16 Do., 4th grade, at 5 Rs. each ... ... | 80 | 545 | | | | | | | | | | | |
| | | 2 Lock Superintendents at 15 Rs. each ... ... | 30 | | | | | | | | | | | | | | | |
| | | 2 Do. at 12 Rs. each ... | 24 | | | | | | | | | | | | | | | |
| | | 5 Do. at 10 „ „ ... | 50 | | | | | | | | | | | | | | | |
| | | 15 Lascars at 6 „ „ ... | 90 | | | | | | | | | | | | | | | |
| | | 29 Do. at 5 „ „ ... | 145 | | | | | | | | | | | | | | | |
| | | Total, Western Delta ... | 339 | 339 | | | | | | | | | | | | | | |
| | | Grand Total ... | | 708 | Grand Total ... | | 545 | ... | 163 | ... | ... | ... | ... | ... | ... | ... | ... | ... |

For *Distributies* see separate sheet attached.

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

### *Distribution of Navigation Establishment.*

| —— | Superintendents. | Lascars. | Remarks. |
|---|---|---|---|
| *Eastern Delta.* | | | |
| Main Canal, Head Lock ... ... ... | 1 | 4 | |
| Masulipatam Canal, Kunkipad Lock ... ... | 1 | 4 | |
| " Veranky Lock ... ... | 1 | 4 | |
| " Nedamole " ... ... | 1 | 4 | |
| " Akumurru " ... ... | 1 | 4 | |
| " Tidal " ... ... | 1 | 4 | |
| Pullera, Pamurru Lock... ... ... ... | ... | 2 | |
| Budimair, Casarapilly Lock ... ... ... | ... | 2 | |
| Buntumilly Canal, Kowtaram Lock ... ... | ... | 2 | |
| *Western Delta.* | | | |
| Main Canal, Head Lock ... ... ... | 1 | 4 | |
| Nizampatam Canal, Duggiralla Lock ... ... | 1* | 3 | |
| " Kuchipadi " ... ... | 1 | 2 | *This Superintendent will look after the Commamur canal head lock also. |
| " Jutur " ... ... | 1 | 2 | |
| " Nallavada " ... ... | 1 | 2 | |
| " Tidal " ... ... | 1 | 2 | |
| Bank Canal, Head Lock ... ... ... | 1 | 4 | |
| Commamur Canal, Head Lock... ... ... | ... | 3 | |
| Jagurlamudy Lock ... ... | 1 | 2 | |
| Santaravur " ... ... | 1 | 2 | This lock will probably be completed next year. |
| Total ... | 16 | 56 | |

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

### *Abstract showing the totals of Conservancy Establishment of the Kistna Delta.*

| NATURE OF CHARGE. | | | | |
|---|---|---|---|---|
| Present Scale. | | Proposed Scale. | | Remarks. |
| | RS. | | RS. | |
| Anicut and Conservancy Establishment ... | 1,519 | Anicut and Conservancy Establishment ... ... ... | 1,699 | |
| Navigation Establishment ... | 708 | Navigation Establishment ... | 545 | |
| Total per month ... | 2,227 | Total per month ... | 2,244 | |
| Deduct Temporary Establishment | 141 | Deduct Temporary Establishment | 168 | |
| Net Total ... | 2,086 | Net Total ... | 2,076 | |
| Total for twelve months ... | 25,032 | Total for twelve months ... | 24,912 | |
| Add Temporary Establishment as follows:—<br>15 × 5 months = ... 75<br>126 × 6 do. = ... 756 | 831 | Add Temporary Establishment as follows:—<br>168 × 6 months = ... 1,008 | 1,008 | |
| Total as per Budget ... | 25,863 | | 25,920 | |
| | | Deduct as per present scale ... | 25,863 | |
| | | Excess required per year ... | 57 | |

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

### *Tabular Statement of the Anicut and Conservancy Establishment of the Kistna Delta as existing and as proposed.*

| No. and date of Order. | Office to which the Proposition refers. | NATURE OF CHARGE. | | | | PROPOSITION. | | | | | | Grounds of Proposition. | Local Government's recommendation. | ORDERS OF THE GOVERNMENT OF INDIA. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Present Scale. | | Proposed Scale. | | Permanent. | | Temporary. | | | | | | P. W. Department. | Financial Department. | |
| | | | | | | Increase per month. | Decrease per month. | Period. | Increase per month. | Period. | Decrease per month. | | | Remarks. | Remarks. | Orders. |
| G.O., No. 3,401, dated 13th November 1865. | | *Anicut Establishment.* | RS. | *Permanent Establishment.* | RS. | RS. | RS. | | RS. | | RS. | | | | | |
| | | 1 Anicut Superintendent. 100 | | 1 Anicut Superintendent. 100 | | | | | | | | | | | | |
| | | 1 Maistry ... ... 30 | | 1 Assistant Superintendent ... ... ... 30 | | | | | | | | | | | | |
| | | 1 Clerk ... ... ... 12 | | 1 Clerk ... ... ... 15 | | | | | | | | | | | | |
| | | 1 Head Lascar ... ... 7 | | 1 Do. ... ... ... 12 | | | | | | | | | | | | |
| | | 8 Lascars at 6 Rs. each ... 48 | | | | | | | | | | | | | | |
| | | 22 Do. at 5 " " ... 110 | | 157 | 157 | | | | | | | | | | | |
| | | 307 | 307 | | | | | | | | | | | | | |
| | | IRRIGATION ESTABLISHMENT. | | | | | | | | | | | | | | |
| | | *Eastern Delta.* | | | | | | | | | | | | | | |
| G.O., No. 1,593, dated 15th June 1871. | | 1 Delta Superintendent, 1st-class ... ... 70 | | 3 Delta Superintendents, 1st grade, at 70 Rs. each ... ... ... 210 | | | | | | | | | | | | |
| | | 2 Do., 2nd-class, at 50 Rs. each ... ... 100 | | 5 Do. do., 2nd grade, at 55 Rs. each... ... 275 | | | | | | | | | | | | |
| | | 2 Do., 3rd-class, at 40 Rs. each ... ... 80 | | 6 Do. do., 3rd grade, at 40 Rs. each... ... 240 | | | | | | | | | | | | |
| | | 2 Do., 4th-class, at 30 Rs. each ... ... 60 | | 19 Lascars, 1st grade, at 8 Rs. each ... ... 152 | | | | | | | | | | | | |
| | | 10 Channel Superintendents, at 12 Rs. each ... 120 | | 19 Do., 2nd grade, at 7 Rs. each ... ... 133 | | | | | | | | | | | | |
| | | 23 Lascars, at 5 Rs. each... 115 | | 27 Do., 3rd grade, at 6 Rs. each ... ... 162 | | | | | | | | | | | | |

Tabular Statement of the Anicut and Conservancy Establishment of the Kistna Delta as existing and as proposed—(Continued).

| No. and date of Order. | Office to which the Proposition refers. | Nature of Charge. | | | | | | Proposition. | | | | | | Grounds of Proposition. | Local Government's recommendation. | Orders of the Government of India. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Present Scale | | | Proposed Scale. | | | Permanent. | | Temporary. | | | | | | P. W. Department. | Financial Department. | |
| | | | | | | | | Increase per month. | Decrease per month. | Period. | Increase per month. | Period. | Decrease per month. | | | Remarks. | Remarks. | Orders. |
| G.O., No. 3,228, dated 13th October 1868. | | *Ellore Canal.* | | RS. | 28 Lascars, 4th grade, at 5 Rs. each ... ... | 140 | RS. | RS. | RS. | | RS. | | RS. | | | | | |
| | | 1 Superintendent... ... | 8 | | | | | | | | | | | | | | | |
| | | 1 Lascar ... ... | 6 | | | | | | | | | | | | | | | |
| | | 1 Do. ... ... | 5 | | | | | | | | | | | | | | | |
| | | | 564 | | | 1,312 | 1,3,2 | | | | | | | | | | | |
| | | | | 564 | *Temporary Establishment for six months.* | | | | | | | | | | | | | |
| | | *For five months.*<br>Moparru calingulah on Budimair. | | | | | | | | | | | | | | | | |
| | | 3 Lascars at 5 Rs. ... | 15 | | 3 Superintendents at 10 Rs. each ... ... | 30 | | | | | | | | | | | | |
| | | | 15 | | 23 Lascars at 6 Rs. each ... | 138 | | | | | | | | | | | | |
| | | | | 15 | | 168 | | | | | | | | | | | | |
| | | Total, Eastern Delta ... | | 886 | | | 168 | | | | | | | | | | | |
| G.O., No. 1,593, dated 15th June 1871. | | *Western Delta.* | | | | | | | | | | | | | | | | |
| | | Delta Superintendent, 1st-class ... ... ... | ... | | | | | | | | | | | | | | | |
| | | 1 Do., 2nd-class ... | 50 | | | | | | | | | | | | | | | |
| | | 1 Do., 3rd-class ... | 40 | | | | | | | | | | | | | | | |
| | | 1 Do., 4th-class ... | 30 | | | | | | | | | | | | | | | |
| | | 17½ Channel Superintendents at 12 Rs. each. | 210 | | | | | | | | | | | | | | | |
| | | 23 Lascars at 5 Rs. each ... | 115 | | | | | | | | | | | | | | | |
| | | | 415 | | | | | | | | | | | | | | | |
| | | | | 445 | | | | | | | | | | | | | | |
| G.O., No. 2,408, dated 8th April 1867. | | *For six months.*<br>Poondla sluice and two calingulahs at Pondrapadu. | | | | | | | | | | | | | | | | |
| | | 2 Lascars at 6 Rs. each ... | 12 | | | | | | | | | | | | | | | |
| | | Nallamada and Masulipatam Calingulahs. | | | | | | | | | | | | | | | | |
| | | 1 Clerk ... ... ... | 10 | | | | | | | | | | | | | | | |
| | | 4 Lascars at 6 Rs. each ... | 24 | | | | | | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | | | | | |
| G.O., No. 3,446, dated 6th November 1867. | | Paruchuru Vagu Sakikalava Calingulahs and Sluices. | | | | | | | | | | | | | | | | |
| | | 3 Lascars at 6 Rs. ... | 18 | | | | | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | | | | | |
| | | Aramanda Channel. | | | | | | | | | | | | | | | | |
| | | 1 Clerk ... ... ... | 10 | | | | | | | | | | | | | | | |
| | | 3 Lascars at 6 Rs. each ... | 18 | | | | | | | | | | | | | | | |
| | | | 28 | | | | | | | | | | | | | | | |
| G.O., No. 3,581, dated 19th December 1874. | | Alleru Calingulah. | | | | | | | | | | | | | | | | |
| | | 1 Clerk ... ... ... | 10 | | | | | | | | | | | | | | | |
| | | 4 Lascars at 6 Rs. each ... | 24 | | | | | | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | | | | | |
| | | | 126 | | | | | | | | | | | | | | | |
| | | | | 126 | | | | | | | | | | | | | | |
| | | Total, Western Delta ... | | 571 | | | | | | | | | | | | | | |
| | | Total of two Deltas ... | | 1,457 | | | | | | | | | | | | | | |
| | | Travelling Allowance ... | | 62 | Travelling Allowance ... | | 62 | | | | | | | | | | | |
| | | Grand Total ... | | 1,519 | Grand Total ... | | 1,699 | 153 | ... | ... | 27 | ... | ... | ... | ... | ... | ... | ... |

For distribution see separate sheet attached.

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

*Distribution of Establishment—Irrigation.*

| —— | Delta Superintendents. | Superintendents. | Assistant Superintendents. | Clerks. | Lascars. | Remarks. |
|---|---|---|---|---|---|---|
| *Permanent.* | | | | | | |
| Anicut ... ... ... ... | ... | 1 | 1 | 2 | 31 | |
| *Irrigation Establishment.* | | | | | | |
| Eastern Delta ... ... ... | 9 | ... | ... | ... | 18 | |
| Ellore canal ... ... ... | ... | ... | ... | ... | 3 | |
| Tappal ... ... ... ... | ... | ... | ... | ... | 13 | |
| Total ... | 9 | 1 | 1 | 2 | 65 | |
| *Temporary for six Months.* | | | | | | |
| Moparru calingulah on Budimair | ... | ... | ... | ... | 3 | |
| Weyyur weir ... ... ... | ... | ... | ... | ... | 2 | |
| Komatigeonta weir ... ... | ... | ... | ... | ... | 2 | |
| Total ... | ... | ... | ... | ... | 7 | |
| *Permanent.* | | | | | | |
| Western Delta ... ... ... | 5 | ... | ... | ... | 10 | |
| Tappal ... ... ... ... | ... | ... | ... | ... | 18 | |
| Total ... | 5 | ... | ... | ... | 28 | |
| *Temporary for six Months.* | | | | | | |
| Poondla sluice and two escapes at Pondapadu ... ... ... ... | ... | ... | ... | ... | 2 | |
| Nallamadda and Molapalem escapes. | ... | 1 | ... | ... | 4 | |
| Parchur Vagoo Sakicalva calingulah and sluices .. ... ... ... | ... | ... | ... | ... | 3 | |
| Aremada channel ... ... ... | ... | 1 | ... | ... | 3 | |
| Alleru escape ... ... ... | ... | 1 | ... | ... | 4 | |
| Total .. | ... | 3 | ... | ... | 16 | |
| Total, Permanent ... | 14 | 1 | 1 | 2 | 93 | |
| Total, Temporary ... | ... | 3 | ... | ... | 23 | |

CAMP, KISTNA,
13th December 1877.

(Signed) JOHN MULLINS, Colonel, R.E.,
Chief Engineer for Irrigation.

*List of Petty Establishment required to be employed on River Embankments in Kistna District.*

| Description of Appointments. | Salary per Month. | Amount for 12 Months. | Remarks. |
|---|---|---|---|
| | RS. | RS. | |
| *Eastern Delta* | | | |
| 1 Maistry ... ... ... ... ... | 30 | | |
| 1 Do. ... ... ... ... ... | 25 | | |
| 2 Do. at 20 Rupees each ... ... ... | 40 | | |
| Total, Eastern Delta ... | 95 | 1,140 | |
| *Western Delta.* | | | |
| 1 Maistry ... ... ... ... ... | 30 | | |
| 1 Do. ... ... ... ... ... | 25 | | |
| 1 Do. ... ... ... ... ... | 20 | | |
| Total, Western Delta ... | 75 | 900 | |
| Grand Total ... | 170 | 2,040 | |

MASULIPATAM,
20th November 1877.

(Signed) J. O. HASTED, Major, R.E.,
Superintending Engineer, Kistna.

*Statement showing Delta Superintendent's Charges as per present Irrigation Channels with reference to Delta Divisions, &c., sanctioned.*

| Delta. | Delta Superintendents. | DELTA SUPERINTENDENT'S CHARGES. Canals. | Miles. | Acres. | Distribution Channels. | Miles. | Acres. | Total Mileage approximate. | Total Acreage approximate. | Square Miles approximate. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Eastern Delta. | 1 | Ellore Canal ... ... | 39 | Acreage under Main Canal and Branches cannot be separated. | Tenneru, Viravalli, Kanumilu, &c., channels ... ... ... ... | 13 | 5,000 | | | | |
| | | | | | Small channels from Kistna portion of Ellore Canal for Godavery irrigation ... ... ... | 20 | 15,000 | | | | |
| | | | 39 | | | 33 | 20,000 | 72 | 20,000 | 100 | |
| | 2 | Ryves' Canal ... ... | 24 | | Uppulur Kunderu, &c., channels... | 12 | 6,000 | | | | |
| | | Masulipatam Canal to Kankipadu. | 13 | | Idupugallu, Kolavennu, Tenneru, Ponadipadu, &c., channels ... | 34 | 4,000 | | | | |
| | | | 37 | | | 46 | 10,000 | 83 | 10,000 | 100 | |
| | 3 | Ryves' Canal ... ... | ... | | Gudivadu branch and its distributaries, Monikonda, Nandamuru, Veniandra, Ventrapragada, Mustappakancadu, Gondicodu, Dondapadu, &c., channels ... | 78 | 24,000 | 78 | 24,000 | 150 | |
| | 4 | Ellore Canal ... ... | ... | | Budameru and its distributaries, Moparru, Nakarallicadu, Bhumicodu, &c., channels ... ... | 91 | 18,000 | 91 | 18,000 | 80 | |
| | 5 | Pulleru Canal from head to Polrazcodu. | 26 | | Weyyuru, Kopaleswarapuram, Yalavanu, Poniana, Palacadu chuttram, &c., channels.. ... | 76 | 20,000 | 102 | 20,000 | 100 | |

*Statement showing Delta Superintendent's Charges as per present Irrigation Channels with reference to Delta Divisions, &c., sanctioned*—(Continued).

| Delta. | Delta Superintendents. | Delta Superintendent's Charges. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Canals. | Miles. | Acres. | Distribution Channels. | Miles. | Acres. | Total Mileage approximate. | Total Acreage approximate. | Spare Miles approximate. | Remarks. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Eastern Delta. | 6 | Polrazcodu Canal and Lower Pulliru. | 41 | Branches cannot be separated. | Chigmakola, Kikabu, Bhincopatam, Urivi, Pantacodu, Gorricadu, Tumendi, Chennuru, Varadacadu, &c., channels ... ... ... ... | 149 | 23,000 | 190 | 23,000 | 130 | |
| | 7 | Pulleru Canal ... ... | ... | | Batlercodu and its distributaries Monialiacodu, Yedlacodu, Nissemkarayacodu, &c., channels ... | 69 | 2,000 | | | | |
| | | | | | Bantumalli channel and its distributaries, Terminus channel and small Irrigation channels ... | 63 | 13,500 | | | | |
| | | | | | East side channel and its distributaries Ramarazupolem, &c., channels ... ... ... ... | 45 | 500 | | | | |
| | | | ... | | | 177 | 16,000 | 177 | 16,000 | 220 | |
| | 8 | Masulipatam Canal below Kankipadu. | 36 | | West side channel and its distributaries Bodlanka, Meduru, Pamidimukkala, &c., channels ... | 70 | 11,000 | 106 | 11,000 | 120 | |
| | 9 | Bank Canal Divi ... | 83 | | ......... | ... | ... | | | | |
| | | | | | Savarnamukhi supply channel, Kadi tank supply channel, Talagada Divi channel, &c. ... ... | 45 | 10,000 | | | | |
| | | | 83 | | | 45 | 10,000 | 128 | 10,000 | 100 | |
| | | Total, Eastern Delta ... | 262 | | Total, Eastern Delta ... | 765 | 152,000 | 1,027 | 152,000 | 1,100 | |

| Delta. | Delta Superintendents. | Canals. | Miles. | Acres. | Distribution Channels. | Miles. | Acres. | Total Mileage approximate. | Total Acreage approximate. | Spare Miles approximate. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Western Delta. | 1 | Bank Canal ... ... | 49 | Acreage under Main Canals and | Kallipara, Rudravaram, Katla tank and Repalli tank and channels | 57 | 12,000 | | | | |
| | | | | | Vellatur branch and its distributaries Vemavaram, Addapalli, Muthayya, Parra, &c., channels. | 58 | 5,000 | | | | |
| | | | | | Iskapalli branch and its distributaries Mantripallem, Kasthuri Appiah, &c., channels ... ... | 20 | 4,000 | | | | |
| | | | 49 | | | 135 | 21,000 | 184 | 21,000 | 110 | |
| | 2 | Main Canal ... ... | 13 | | Pirakalapudi, Manchikalapudi and Morampudi, &c., channels ... | 11 | 4,000 | | | | |
| | | Nizampatam Canal ... | ... | | West side channel and its distributaries Gudivada, Yedlapalli, Manduru, Parimisenth, &c., channels ... ... ... ... | 82 | 9,000 | | | | |
| | | | 13 | | | 93 | 13,000 | 106 | 13,000 | | |
| | | Commamur Canal ... | ... | | Tungabudra branch and its distributaries Aramanda, &c., channels | 69 | 8,000 | 69 | 8,000 | | |
| | | | 13 | | | 162 | 21,000 | 175 | 21,000 | 80 | |
| | 3 | Nizampatam Canal ... | ... | | East side channel and its distributaries Tenalli and Jampani, Tedaravuru, Peravali, and Dontalur, &c. channels .. ... ... | 175 | 19,000 | | | | |
| | | | | | Nallavada, &c. ... ... ... | 6 | 3,000 | | | | |
| | | | ... | | | 181 | 22,000 | 181 | 22,000 | 110 | |
| | 4 | Commamur Canal as far as Nallamodu calingulah. | 29 | | Vadlamudi, Mutluru, Poondla and Anna, &c., &c., channels ... | 100 | 18,000 | 129 | 18,000 | 125 | |
| | 5 | Commamur Canal below Nallamodu calingulah. | 21 | | Bapatla tank channels, Cherukur Koranchedu, &c., channels ... | 40 | 18,000 | 61 | 18,000 | 125 | |
| | | Total, Western Delta ... | 112 | | Total, Western Delta ... | 618 | 100,000 | 730 | 100,000 | 550 | |
| | | Grand Total ... | 374 | | Grand Total ... | 1,383 | 252,000 | 1,757 | 252,000 | 1,660 | |

MASULIPATAM,
20th November 1877.

(Signed) J. O. HASTED, Major, R.E.,
Superintending Engineer, Kistna.

No. 33. ORDER THEREON, 14th January 1878, No. 36 I.

HIS GRACE the Governor in Council approves of the revision of the Kistna Delta Conservancy and Navigation Establishment in the manner recommended for sanction by Chief Engineer for Irrigation.

2. It is observed that the new scale exceeds the present sanction by Rupees 57 only yearly.

3. The sanction of the Government of India to the new scale will be applied for, and in the entries in the Budget estimate for 1878-79 the new scale will be adopted.

(Here enter No. 37 I, dated 14th January 1878.)

(True Extract.)

(Signed) JOHN MULLINS, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineers, Kistna and Godavery.
,, Examiner of Public Works Accounts.
,, Chief Engineer for Irrigation.

Exd. E. C. Shunker.
Spare Copies

IRRIGATION.
ESTABLISHMENT.

Govt. of (1878) Madras.
PUBLIC WORKS.

The SUPERINTENDING ENGINEERS,
KISTNA and GODAVERY.

Dated, January 1878.

Read

JANUARY.
Nos. 32-33.

Kistna Delta Irrigation. ... The ... scale of Conservancy and Navigation Establishments of the ... approved and forwarded for the sanction of the Government of India.

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13/1089

13/1089

Memo

Entry to be made as proposed by the E.I. in the Budget but on the subject of preferring increment in the form of personal allowance to the pay of the Assist. Superintendent in preference to placing him on graded pay I think this should be reconsidered.

The Government of India have lately in I believe all cases referred to them refused to recognize the principle of personal allowances, and I am convinced that they would not make any exception in this case.

Whether the principle of placing such men on graded pay be desirable or not it is the only one which will I am convinced be sanctioned by the Govt!

But as it is stated by the S.E. that Anicut Superintendents should be of the same class as our Upper Subordinates why should not the appointment in future be held by one of these men, who could gradually rise through the different grades, till it might be deemed expedient to replace him by another man?

12.1.83

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## Abstract showing the totals of Conservancy Establishment of the Kistna Delta

14/1007

### Nature of Charge

| Present Scale | Rs | Proposed Scale | Rs | Remarks |
|---|---|---|---|---|
| Anicut and Conservancy Establishment | 1,676 | Anicut and Conservancy Estt. | 1633½ | |
| Navigation Establishment | 613 | Navigation Establishment | 716½ | |
| Total per month | 2,289 | Total per month | 2,350 | |
| Deduct Temporary Establishment | 169 | Deduct Temporary Establishment | 170 | |
| Net total | 2,120 | Net total | 2,180 | |
| Total for 12 months | 25,440 | Total for 12 months | 26,160 | |
| Add Temporary Establishment as follows. | | Add Temporary Establishment as follows. | | |
| 169 × 6 months = Rs 1,014 | 1,014 | 170 × 6 months = Rs 1,020 | 1,020 | |
| Total | 26,454 | Total | 27,180 | |
| | | Deduct as per present scale | 26,454 | |
| | | Excess required per year | 726 | |

Superintending Engineer's Office
2nd Circle, Masulipatam
31st October 1882

J. W. Rundall
Superintending Engineer
2nd Circle

IGATION

R 140 K
1

## Kistna Delta

Abstract showing the totals of Conservancy Establishment

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Distribution of Establishment Irrigation

| | Delta Superintendents. | Superintendents | Assistant Superintendents | Clerks | Lascars | Remarks |
|---|---|---|---|---|---|---|
| **Permanent.** | | | | | | |
| Anicut | - | 1 | 1 | 2 | 31 | |
| **Irrigation Establishment** | | | | | | |
| Eastern Delta | 9 | - | - | x 1 | ⊕ 22 | x Irrigation Clerk, newly proposed.<br>⊕ This includes 1 Lascar 1st Grade, proposed to be entertained through out the year, at Komaliguuta weir. |
| Tappal | - | - | - | - | 14 | |
| | 9 | 1 | 1 | 3 | 67 | |
| **Temporary for 6 months** | | | | | | |
| Komaliguuta weir | - | - | - | - | 1 | |
| Moparru weir on Budawair | - | - | - | - | 3 | |
| Weyyur weir on Pulleru | - | - | - | - | 2 | |
| | - | - | - | - | 6 | |
| **Permanent** | | | | | | |
| Western Delta | 5 | - | - | - | 10 | |
| Tappal | - | - | - | - | 12 | |
| | 5 | - | - | - | 22 | |
| **Temporary for 6 months** | | | | | | |
| Aramanda Caluigalah | - | 1 | - | - | 3 | |
| Pundla and Pondrapad Head Sluices | - | - | - | - | 2 | |
| Nallamada Surplus sluice | - | - | - | - | 3 | |
| Mulapalem Escape | - | - | - | - | 2 | |
| Lakicalua Escape | - | - | - | - | 2 | |
| Parchurvagu Surplus Sluice | | 1 | - | - | 2 | |
| Alleru Do. | - | - | - | - | 2 | |
| Vellatur, Kollur, & Penumudi Do. | - | - | - | - | 3 | |
| | - | 2 | - | - | 19 | |
| Total Permanent | 14 | 1 | 1 | 3 | 89 | |
| Total Temporary | - | 2 | - | - | 25 | |

Superintending Engineer's Office,
2nd Circle, Masulipatam
31st October 1,882

J. W. Rundall
Superintending Engineer
II Circle

16+17

R140k
7

Distribution of Irrigation
Establishment

# Tabular Statement of the Anicut and Conservancy Establishment of the Kistna Delta as existing and as proposed

No. and date of order
Office to which the proposition refers

Proceedings of the Madras Government

No. 36.I dated 14th January 1878
" 187.I dated 8th March 1878
" 782.I dated 24th November 1880
" 153.I dated 1st March 1881

Kistna Delta

| Nature of Charge — Present Scale | Rs | | Nature of Charge — Proposed Scale | Rs | | Proposition — Permanent — Increase per month | Decrease per month | Temporary — Period | Increase per month | Period | Decrease per month | Grounds of Proposition | Local Government's recommendation | P. W. D. Remarks | Orders of the Govt. of India Financial Department Remarks | Orders |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Permanent Establishment** | | | **Permanent Establishment** | Average | | | | | | | | | | | | |
| 1 Anicut Superintendent | 100 | | 1 Anicut Supt., from 100 to 120 | ~~110~~ 100 | | | | | | | | | | | | |
| Personal allowance | 20 | | | | | | | | | | | | | | | |
| 1 Assistant Superintendent | 30 | | 1 Assistant do from 30 to 40 | ~~35~~ 30 | | | | | | | | | | | | |
| 1 Clerk | 15 | | 1 Clerk V class, 1st Grade | 17½ | | | | | | | | | | | | |
| 1 Do | 12 | | 1 Do V Class 2nd Grade | 12½ | | | | | | | | | | | | |
| | | ~~157~~ 177 | ~~Personal allowance to the present Anicut Supt.~~ | ~~20~~ | ~~175~~ 190 | | | | | | | | | | | |
| 3 Delta Superintendents, 1st Grade at Rs 70 each | 210 | | 3 Delta Superintendents, 1st Grade at Rs 70 each | 210 | | | | | | | | | | | | |
| ~~3~~ 5 Delta Superintendents, 2nd Grade at 55 Rs each | ~~165~~ 275 | | 3 Delta Superintendents, 2nd Grade at Rs 55 each | 165 | | | | | | | | | | | | |
| ~~8~~ 6 Delta Superintendents, 3rd Grade at Rs 40 each | ~~320~~ 240 | | 8 Delta Superintendents 3rd Grade at Rs 40 each | 320 | | | | | | | | | | | | |
| ~~19~~ 17 Lascars, 1st Grade at Rs 8 each | ~~152~~ 136 | | 18 Lascars, 1st Grade, at Rs 8 each | 144 | | | | | | | | | | | | |
| ~~19~~ 17 Lascars, 2nd Grade at Rs 7 each | ~~133~~ 119 | | 18 Lascars, 2nd Grade, at Rs 7 each | 126 | | | | | | | | | | | | |
| ~~30~~ 25 Lascars, 3rd Grade at Rs 6 each | ~~180~~ 150 | | 26 Lascars, ~~3rd Grade~~, at Rs 6 each | 156 | | | | | | | | | | | | |
| ~~28~~ 29 Lascars, 4th Grade at Rs 5 each | ~~140~~ 145 | | 27 Lascars, 4th Grade, at Rs 5 each | 135 | | | | | | | | | | | | |
| | | ~~1288~~ 1275 | 1 Irrigation Clerk V class 1st grade Average | 17½ | 1273½ | | | | | | | | | | | |
| | | 1452 | | | 1463½ | | | | | | | | | | | |
| **Temporary Establishment for 6 months** | | | **Temporary Establishment for 6 months** | | | | | | | | | | | | | |
| 3 Superintendents at Rs 10 = | 30 | | 2 Superintendents at Rs 10 = | 20 | | | | | | | | | | | | |
| ~~1 Lascar 1st Grade~~ | ~~8~~ | | 1 Lascar, 1st Grade | 8 | | | | | | | | | | | | |
| ~~1 Do 2nd Grade~~ | ~~7~~ | | 22 Lascars, 3rd Grade, at Rs 6 each | 132 | | | | | | | | | | | | |
| ~~19 Do 3rd Grade, at Rs 6 each~~ | ~~114~~ | | 2 Lascars, 4th Grade, at Rs 5 each | 10 | | | | | | | | | | | | |
| ~~2 Lascars, 4th Grade, at Rs 5 each~~ | ~~10~~ | | | | 170 | | | | | | | | | | | |
| 23 Lascars at 6 Rs | 138 | ~~169~~ 168 | | | | | | | | | | | | | | |
| Travelling allowance | | 62 | Travelling allowance | | 15 | | | | | | | | | | | |
| Grand Total | | ~~1679~~ 1682 | Grand Total | | ~~1638½~~ 1648½ | | ~~43½~~ 33½ | 6 months 1 | | | | | | | | |

To be met from Provision for Temporary Establishment

To be met from Travelling allowance

Superintending Engineer's Office
2nd Circle Masulipatam
31st October 1882 } H

J. W. Rundall
Superintending Engineer
II Circle.

18 + 19

R140 k
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Tabular Statement of the
Anicut and conservancy
Establishment as existing
and as proposed.

# Distribution of Navigation Establishment

| Division | Canal | Lock | Superintendents | Lascars | Traffic Superintendents | Remarks |
|---|---|---|---|---|---|---|
| Eastern Delta. | Main Canal. | Head Lock | 1 | 4 | „ | |
| | Masulipatam Canal | Kankipad Lock | 1 | 4 | „ | |
| | | Vurumki Lock | 1 | 6 | „ | This includes 2 Lascars proposed to be transferred from Tidal Lock owing to heavy work here. |
| | | Nidamole Lock | 1 | 4 | „ | |
| | | Akumarru Lock | 1 | 4 | „ | |
| | | Tidal Lock | 1 | 2 | „ | This is exclusive of 2 Lascars proposed to be transferred to Vurumki Lock. After the Construction of the new Quay wall, the work will be light here; 1 Superintendent proposed. |
| | Pulleru Canal | Pamarru Lock | 1 | 2 | „ | |
| | Budamir Canal | Kesarapalli Lock | „ | 2 | „ | |
| | Bantumilly Canal | Kowtaram Lock | 1 | 2 | „ | |
| | Western Delta Main Canal | Head Lock (Sitanagaram Lock) | 1 | 4 | „ | |
| | | Bezwada | „ | „ | 1 | |
| | | Ellore | „ | 1 | 1 | Newly proposed. |
| | | Anicut Office | „ | „ | 1 | Boat Clerk, Newly proposed. |
| | | | 9 | 35 | 3 | |
| Western Delta | Nizampatam Canal. | Duggirala Lock | 1 | 3 | „ | This Superintendent will look after the Commamur Canal Head Lock also. |
| | | Kuchipudi Lock | 1 | 3 | „ | |
| | | Intur Lock | 1 | 3 | „ | |
| | | Nallamada Lock | 1 | 3 | „ | |
| | | Tidal Lock | 1 | 3 | „ | |
| | Bank Canal | Head Lock | 1 | 3 | „ | |
| | Commamur Canal | Head Lock | „ | 3 | „ | |
| | | Jagerlamudi Lock | 1 | 3 | „ | |
| | | Kollimerla Lock | 1 | 3 | „ | |
| | | Nallamada Lock | 1 | 3 | „ | |
| | | Santaravur Lock | 1 | 3 | „ | |
| | | Peda Ganjam Lock | 1 | 3 | „ | |
| | | | 11 | 36 | „ | |
| | | Total | 20 | 71 | 3. | |

Superintending Engineer's Office,
2nd Circle, Masulipatam
31st October 1882

J. W. Rundall
Superintending Engineer,
2nd Circle.

CHIEF ENGINEER FOR IRRIGATION

R140Ks
4

Distribution of Navigation
Establishment.

20+21

Tabular Statement of the Navigation Establishment of the [illegible] Delta as existing and as proposed.

| No. and date of Order | Office to which the proposition refers | Nature of Charge |  |  |  | Proposition |  |  |  |  |  |  |  | Orders of Govt of India |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  | Present Scale |  | Proposed Scale |  | Permanent |  | Temporary |  |  |  | Grounds of proposition | Local Governments recommendation | P.W.D. | Financial Department |  |
|  |  |  | Rs |  |  | Increase per month | Decrease per month | Period | Increase per month | Period | Decrease per month |  |  | Remarks | Remarks | Orders. |
| Proceedings of the Madras Government<br>No 36 I of 14th January 1878<br>187 I of 2nd March 1878<br>761 I of 24th November 1880<br>158 I of 1st March 1881 | Kistna Delta | 3 Lock Superintendents, 1st Grade at Rs 15 each | 45 | 3 Lock Superintendents, 1st Grade at Rs 15 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 8 ~~6~~ Lock Superintendents, 2nd Grade at Rs 12 each | 96 ~~72~~ | 7 Lock Superintendents, 2nd Grade at Rs 12 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 8 ~~7~~ Lock Superintendents, 3rd Grade at Rs 10 each | 80 ~~70~~ | 10 Lock Superintendents 3rd Grade at Rs 10 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 15 ~~13~~ Lascars, 1st Grade at Rs 8 each | 120 ~~104~~ | 14 Lascars, 1st Grade at Rs 8 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 17 ~~14~~ Lascars, 2nd Grade at Rs 7 each | 119 ~~98~~ | 14 Lascars, 2nd Grade at Rs 7 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 21 ~~17~~ Lascars, 3rd Grade at Rs 6 each | 126 ~~104~~ | 21 Lascars, 3rd Grade at Rs 6 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 17 ~~18~~ Lascars, 4th Grade at Rs 5 each | 85 ~~90~~ | 22 Lascars, 4th Grade at Rs 5 each |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 Traffic Gumasta at Rs 12, at Bezwada | 12<br>683<br>~~643~~ | 2 Traffic Gumastas at Rs 12 each at Bezwada and Ellore |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 Boat clerk, & class 1st Grade at the Assist. Office Bezwada - Average | 716½ |  |  |  |  |  |  | ③ |  |  |  |  |
|  |  | Grand total | ~~643~~<br>683 | Grand total | 716½ | 33½<br>~~103½~~ |  |  |  |  |  |  |  |  |  |  |

Superintending Engineer's Office,
2nd Circle, Masulipatam
31st October 1881

J. W. Rundall
Superintending Engineer 2nd Circle

Tabular Statement of the Na
-gation Establishment existing
and as proposed.

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E. I. Form No. 34-F.

GOVT. OF MADRAS. 1882. P.W.D DEPT.

CHIEF ENGINEER FOR IRRIGATION.

Madras, 18th Dec 1882

OFFICE NOTE. No. 312

R No 148 K S J 31-10-82

### Circulation Register.

| To | From | Despatch Date. | Receipt Date. |
|---|---|---|---|
| C. | D.E.I. | 19/12/82 | |

KEEP WITH.

No. dated 188 .

1007 W

Please check the entries in the Column "Present scale" of the accompanying tabular statements showing the proposed Conservancy & Navigation Establishment for the Kistna Delta and [illegible]

As soon as practicable

CHIEF ENGINEER FOR IRRIGATION
4 JAN
1883

A.R.

W.C.S.

D.D.
1007

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B.M.
18.12.82

No 825 D 5.1.82

Encs. 5

To E.I.

The entries in column "Present Scale" of the accompanying statements have been checked as requested and the necessary corrections made in red ink.

Ag. C.

To,

E.E.

5-1-83

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No 1470 K.S

Superintending Engineer's Office,
2nd Circle, Masulipatam.
31st October 1882

From

The Superintending Engineer,
2nd Circle

D.D.
1007

To

The Chief Engineer
for Irrigation,
Madras.

Enclosures

1 Statement showing Distribution of Irrigation Establishment.

1 Tabular statement of the Anicut & Conservancy Estt as existing and as proposed.

1 Statement showing Distribution of Navigation Establishment.

1 Tabular statement of -do- as existing & as proposed.

1 Abstract showing the Totals of the Conservancy Establishment.

Sir,

With reference to your Memo No $\frac{II}{139 K.I}$ dated the 22nd December 1881, I have the honor to forward herewith, revised Statements of the existing and proposed Conservancy and Navigation Establishments of the Kistna Delta System in the Forms printed with G.O. No 36.I, dated 14th January 1878. The Establishment sanctioned for the Nallawada Lock, in G.O. No 846.I of 9th December 1881 has been included under "proposed Establishment", as the sanction of the Government of India to the same has not as yet been received.

2. The proposals requiring sanction are

Irrigation Establishment

(Permanent)

(1) The grading of the Anicut Establishment,

for which average salaries alone are entered in the Tabular Statement herewith, and the increase of the salary for the Assistant Anicut Superintendent, both resulting in an increase of Rs18.

R 18

It will be seen that, I have proposed to alter the Salaries of the Anicut Superintendent and Assistant Anicut Superintendent from the present fixed sums of Rs100 and Rs30 respectively, to Salaries rising from 100 to 120 and from 30 to 40. Sanction has already been given to the Anicut Superintendent to draw Rs120 from 1st April 1882. I would request sanction to the Assistant Anicut Superintendent, a valuable servant of 29 years service, being permitted to draw the maximum. Future incumbents should get increments of Rs 4 and 2 every alternate year till the maximum is reached.

(2) The entertainment of one Irrigation Clerk, V class, 1st Grade in the Kistna Eastern Division, for whom also an average salary of Rs17½ has been entered in the Tabular Statement. This clerk is required to keep the Irrigation Accounts. It is believed that such Clerks are allowed in the Godavari District.

(3) The redistribution in the scale of Lascars and a reduction of 5 in the number of individuals as detailed below resulting in a decrease of Rs 32

+ 1 Lascar for Konatigunta weir in the Eastern Division.
− 6 Tappal Lascars in the Western Division
− 5 Net decrease.

(4) Only a sum of Rs 15 has been entered under Travelling allowance as only 1 Delta Superintendent is entitled to it, because he was drawing the same before the new rules came into force. This involves a decrease of Rs 47.

## Temporary

(5) The abolition of 1 Temporary Superintendent for 6 months sanctioned for Nallamada Calingulah, and 1 Lascar, 2nd Grade sanctioned for the Konatigunta weir, and the proposal to employ 3 more Lascars 3rd grade at Vellatur, Penumudi, and Kollur weirs, resulting in an increase on the whole of 1 Rupee. The post of Superintendent at Nallamada Surplus sluice

is not required, as since the Construction of the Nallamada Lock, the Lock Superintend looks after the Surplus Sluice also.

## Navigation Establishment

(6) The redistribution and the increase of 1 Lock Superintendent (in addition to the one Sanctioned for the Nallamada Lock) proposed for Pamarru Lock where one will be required, as there is likely to be much work shortly when the Completion Project is begun.

(7) The redistribution and an addition of 9 Lascars, as under. This would involve an increase of Rs 52.

+ 2 more Lascars for Virunki Lock.
− 2 Lascars at Tidal Lock (Eastern Division)
+ 10 more Lascars at 1 for each of the Locks at 1 Pamarru, 2 Tidal Lock (Western Division), 3 Jagarlamudi, 4 Kuchipudi, 5 Intur, 6 Nallamada, 7 Kollimerla, 8 Nallamada 9 Santaravur and 10 Ellore.
− 1 Lascar at Bank Canal.

9 Net Increase.

(8) The employment of a Traffic Superintendent at Ellore on Rs 12, whose Temporary employment was sanctioned in G. O. No 1639 W of

the 28th June 1882. I have added one Lascar, who is required as the Traffic Superintendent has to remit money to the Treasury.

(9) Also the entertainment of a Boat Clerk, V Class, 1st Grade at the Anicut Office, Bezwada, on an average Salary of Rs 17½.

3. Summing up the above proposals, it will be seen that, a sum of Rs 38½ can be transferred from water Regulation to Navigation Establishment.

| Irrigation. | | Navigation. | |
|---|---|---|---|
| (1) Anicut Establishment | + 18 | (6) Lock Superintendents | + 22 |
| (2) Irrigation Clerk | + 17½ | (7) Lascars Establishment | + 52 |
| (3) Lascars Establishment | − 32 | (8) Traffic Superintendent | + 12 |
| (4) Travelling Allowance | − 47 | (9) Boat Clerk | + 17½ |
| Net Saving − 79 + 35½ = 43½ | | Amount required | + 103½ |
| | | Deduct amount that can be transferred from Irrigation | − 43½ |
| | | Net sum required per mensem | + 60 |
| | | Per Annum | 720 |
| | | (5) Add Temporary Establishment at 1R for 6 months | 6 |
| | | Total Rupees | 726 |

4. The number of Lascars for each grade has been calculated as ordered in para 6 of the Irrigation Chief Engineer's Memo No. 50 H.I. dated 22nd July 1877 printed at page 2 of G.O. No. 36 I dated 14th January 1878.

5 The above proposals would involve a net increase of Rs 450 as follows—

| | |
|---|---|
| Increase required as per Abstract Statement herewith | Rs: 726 |
| Deduct for Nallamada Lock at Rs 23 per mensum already Sanctioned by Govt. | " 276 |
| Net Sum required Rupees— | 450 |

which I request you will be good enough to recommend for the Sanction of Government.

I have the honor to be,

Sir,

Your most Obt. Servant

J. W. Rundall

Superintending Engineer,

2nd Circle.

Compd JH.

CHIEF ENGINEER
13 NOV
FOR IRRIGATION

From

The Superg. Engineer
2nd Circle

To

The Chief Engineer,
for Irrigation
Madras

Dated 31st October } 1882
Despd. " 6th November }
Recd ... }

No. 1470 K.S.

Kistna Delta System —

Conservancy & Navigation Establishments of the — Forwards revised Statements of the existing and proposed — for sanction

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P 4

Letter from the Supg. Engineer 2d circle
No. 1470. K.S. dated 31st October 1882.

27/(1007)

Note by the Ag. Chief Engineer for Irrigation

No. 69 - Ev

Encl. 7 — With the above letter the Supg. Engineer 2nd circle submits statements of proposed Conservancy & Navigation Establishments for the Kistna Delta, which have been prepared after communication with this office.

2. The sanction of the Government of India to the Establishment at Nullamada Lock is not required and the Establishment should be therefore included under "Present scale" and the increase of "Proposed scale" reduced accordingly.

3. The pay of the Anicut Superintendent is Rs 100 but under G.O. No. 2457 W. dated 6th October 1881 the present Superintendent is permitted to draw Rs 120. The Supg. Engineer proposes a graded scale of pay for the Superintendent and Assistant Superintendent in future, the former to range from 100 to 120 Rs and the latter from 30 to 40 Rs, and further

recommends

recommends that the present Assistant Superintendent who has 29 years good service should now receive the maximum pay, future incumbents receiving increments of Rs 4 and 2 every alternate year till the maximum is reached. While prepared to recommend the Assistant Superintendent should in recognition of his services receive 40 Rs a month, I think it unadvisable to fix the maximum of the Anicut Superintendents' pay at Rs 120 the amount that he at present draws. The objection to fixed pay for these appointments is that the class of men we require and get is the same as that from which we draw our Upper Subordinates, and while the position is a more responsible one than that held by many Upper Subordinates, the Anicut Superintendent finds himself distanced by men of his own standing, and having reached his maximum pay has no inducement to further exertion. I am disposed to think the pay of Anicut Superintendent & Assistant

should stand at Rs 100 & 30 respectively and the incumbents should be considered eligible for a personal allowance in addition to the pay if recommended without fixing any limit to such allowance. This arrangement would render the Budget provision liable to fluctuation, but it would enable us to retain the services of men whose experience may be worth paying fo and be an incentive to the men to furth exertion. I recommend that the pa for next year of these two appointments should be Rs 120 & Rs 40 respectively.

4. I support the recommendation of the Superintending Engineer to appoint an Irrigation clerk V o 1st grade in the Kistna Eastern Divi and his proposals as regards Lasca also that the appointment of Spare Superintendent at Ellore Aqueduc should be permanent instead of temporary.

5 As the Delta Superintendents Travelling allowance is a fixed sum, the duties of a Delta Supt requiring

requiring him in every instance to travel, the saving on this item seems to be properly shown as a saving on the cost of Establishment.

6. The statement of proposed Establishment corrected in accordance with the above remarks is forwarded to the Chief Engineer P.W.D. for entry in the Budget, the cost of water regulation & Navigation Establishment being a charge against Provincial Funds.

Camp
Cuddapah Canal
6th December 1882
Despd. 11th Jany 1883

Johnstone Colonel R.E.
Ag. Chief Engineer for Irrign.

To
The Chief Engineer
P.W.D.

No 2457 W d/ 6-10-81

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No 1007 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 2d April/83

Read the following

Note by the Ag. Chief Engineer for Irrigation } H.P. No. 69 I.W. d/ 5th Decr/82

The Government concur with the Chief Engineer for Irrigation as to the propriety of raising the pay and status of the Canal and Assistant Canal Superintendents of the Kistna and would be glad to bring them on the regular Upper Subordinate Establishments of the Dept if the Scale [illegible] admitted of this being done. This however is not practicable at present. The pay of the posts will be fixed at Rs 120 and Rs 40 respectively subject to revision ~~[illegible]~~

~~[illegible]~~

The following revised scale of permanent establishment is sanctioned with effect from the 1st April. the requisite provision having been made in the "Budget" for 1883.84

## Kistna Delta System

## Water Regulation Establishment

| | | | | |
|---|---|---|---|---|
| 1. | Assistant Superintendent | Rs | 120 | |
| 1. | Assistant do | " | 40 | |
| 1. | Clerk & Class 1st grade | " | 17½ | |
| 1. | — " — 2nd — " — | " | 12½ | |
| 3 | Delta Superintendents | " | 70 | each |
| 3 | — " — | " | 55 | — " — |
| 8 | — " — | " | 40 | — " — |
| 18 | Lascars | " | 8 | — " — |
| 18 | — " — | " | 7 | — " — |
| 26 | — " — | " | 6 | — " — |
| 27 | — " — | " | 5 | — " — |
| 1 | Irrigation Clerk & Class 1st grade | " | 14½ | |

## Navigation Establishment.

| | | | | |
|---|---|---|---|---|
| 3 | Lock Superintendents | Rs | 15 | each |
| 4 | — " — | " | 12 | — " — |
| 10 | — " — | " | 10 | — " — |
| 14 | Lascars | " | 8 | — " — |
| 14 | — " — | " | 7 | — " — |
| 21 | — " — | " | 6 | — " — |
| 22 | — " — | " | 5 | — " — |
| 2 | Traffic Clerks | " | 12 | — " — |
| 1 | Boat Clerk & Class 1st grade | " | 14½ | |

This sanction has been registered as Provincial —

No 70 W of 1882.83 and classified as Establishment Permanent.

30/1883

The temporary establishment is sanctioned as follows.

## Kistna Delta System

## Water Regulation Establishment

| | | | | |
|---|---|---|---|---|
| 2 | Superintendents | Rs | 10 | each |
| 1 | Lascar | " | 8 | |
| 22 | — " — | " | 6 | each |
| 2 | — " — | " | 5 | — |

and the requisite funds will be allotted from the grant for Temporary Establishment for 1883.84 on the Supdg Engr reporting the amount that will be required. // This sanction has been registered as Provincial No 71 W of 1882.83 and classified as Establishment Temporary. It will remain current till the end of the Official Year 1883.84.

Des 10
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The Supdg Engr Second Circle 6
" the Dy for Irrigation 11
" Examiner P.W. Accounts 11
21

Issued 31/3

R.S./

31/3/83

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated

Recd. 188

G. O. 2nd April 188 No. 1007 W

Kistna Delta System

State of Conservancy, Nav
tion &c Establishments f
the —

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[illegible]