M.R.O. 1—10,006—28-2-50

(1) Number of pages

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No. / B.P. No. 1753 (9) Press / ~~Mis.~~

623-624.

Dated 30-6-1874 ~~195~~ .

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
30th June 1874.

No. 623. Read the following :—

NOTE BY CHIEF ENGINEER FOR IRRIGATION.

TEMPORARY SURVEY ESTABLISHMENTS, 1874-75.

Ordinary.

GANJAM.—The cost Rupees 180 of surveying and levelling two tamparas or lakes in this district may be sanctioned.

2. GODAVERY.—The District Engineer asks for sanction for an establishment for six months at a cost of Rupees 480 for surveying river embankments, and he quotes G. O., No. 3,026, of the 19th December 1872, as sanctioning the execution of these surveys, but that relates to the preparation of surveys or charts of the rivers for purposes of conservancy. No information has been given as to the amount of work done and remaining to be done, and moreover provision has been made in the revised scale* of Conservancy Establishment for such survey work as appears to be here contemplated.

* G. O., No. 1,038, dated 22nd April 1874.

3. NELLORE.—Sanction for Survey Establishments for small projects and to contour tanks should be applied for with reference to G. O., No. 581, dated 5th March 1874, and a specification of the work to be done, and of the time required to do it, should accompany the application.

4. CHINGLEPUT.—The estimated cost, Rupees 176, of the levels required for the repair of the Cortiliar and Narrainaveram river embankments may be sanctioned. The other establishment in connection with the Madras Water Works Project should not be sanctioned until it has been clearly shown what the Surveyor is to do.

Vide paragraph 6 of G. O., No 1,652, dated 25th June 1873.

5. SOUTH ARCOT.—The District Engineer asks for sanction for—

	RS.
2 Surveyors, at 50 Rupees each	100
16 Lascars, at 6 ,, ,, ...	96
Total...	196

for preparing surveys, levels, and estimates for certain new and maintenance works detailed in two lists, and it is intimated that these estimates are intended for execution in 1874-75. The estimates are expected to amount for the—

	RS.
Chellambrum Taluq to	2,45,000
Virdachellum Taluq to	63,000
Kullakurchy Taluq to	15,000
Total ..	3,23,000

For the present it will be best to confine investigations in the South Arcot District to those required in connection with works already in progress, or with the proper maintenance of existing works. For these the lists should be more detailed ; the District Engineer should have a fairly definite idea of what improvements the works require, and of the extent of surveying or levelling needed for the preparation of suitable estimates; he will then know approximately for what time a survey party will be required; he should also with his application for the sanction of survey establishment give a short account of the scope of any considerable improvements contemplated. There are works in the Chellumbrum Taluq list for instance regarding which explanation is certainly required, for the clearing of channels leading from tank sluices to the fields is not usually a charge against the repair grant; such are the proposals to spend a lakh of rupees on the channels of the Vadavaur and Viranam tank, and 20,000 Rupees on the channels of the Wallajah tank. For the repair of the Coleroon north bank levels are no doubt required. It is probable that the District Engineer, Tanjore, will very shortly be able to furnish them; but, should the embankment levels not be taken by the survey party employed on the Coleroon survey, sanction will be given under G. O., No. 581, dated 5th March 1874, on its being reported what number of miles have to be levelled and what the cost will be. For such work it should be understood indeed that an estimate on fairly accurate data based upon the extent of work to be done is necessary. All the assistance that is wanted to enable District Engineers to get the work that is required done, and to prevent outlay on work that is not needed, may with advantage be afforded, but every precaution must be taken to prevent survey parties wasting their time for want of definite instructions, or spending their time unprofitably in doing work which may be of little or no use.

6. The connection of detached levels will be an eminently useful work in all extensively irrigated parts of the country, and estimates for such will be sanctioned or recommended for sanction if properly prepared.

7. In G. O., No. 2,416, of the 20th October 1873, sanction for further charges for the Survey Establishment employed on the Pullagacherry project to the extent of Rupees 340 was given, and Rupees 226 were expended within the year. In his statement for 1874-75 the District Engineer applies for further sanction for Rupees 344, stating that the work had not been completed owing to the illness of the Surveyor, and that the additional cost is necessary, because some work done by a former Surveyor was wrong, and had to be done over again. The additional sanction asked for is 230 Rupees, and this would represent about 2½ months' work for a Surveyor and Lascars, and if that amount of work has been wrongly done, blame would appear to attach to the officer under whom the Surveyor was employed. In the absence of much more satisfactory explanations than have been given, no further sanction should be accorded.

8. TANJORE.—A survey party for four months and a Draughtsman for six months may be sanctioned for the completion of the survey of the river margins. The District Engineer states that the $\frac{1}{2,500}$ scale on which the Cauvery and Codamoorty surveys have been plotted is too small for taking up land; this scale is 208⅓ feet to the inch, and the scale of the plans on which all land is made over to the Madras Irrigation and Canal Company is 264 feet to the inch, so that, if attention be paid to the remarks contained in paragraph 8 of the note printed in Proceedings, Madras Government, of the 8th January 1870, No. 90, the $\frac{1}{2,500}$ scale should suffice.

A.—It is necessary to remark that in deciding what land should be taken up, the necessary alterations of the alignment of the river embankments should be fully considered. In some places these are at present so aligned as to be unsafe, while elsewhere they in high freshes act somewhat as groynes and divert the current injuriously. It should not be overlooked that the margins to be acquired on either side of an embankment are to be measured from the toe of the slope when the banks are of their proper section.

B.—In paragraph 9 of his letter, Major Mead explains how he understands the margins laid down as proper to be taken up or reserved in the papers printed with the order just referred to. Remembering that the Cauvery and Codamoorty are referred to, he is right in supposing that on the river side of the embankments a strip of 12 yards is to be acquired on the edge of the river bank and a similar strip at the foot of the embankment, so that where the berm or padugay is not more than 24 yards wide the whole will be taken up. On the other side of the embankment, 12 yards may be acquired where the land is waste, 8 yards where under dry cultivation, and 4 yards where under wet cultivation, the object being to reduce as far as possible the width of the berm where land is valuable. In many cases earth for repairs could be obtained either from some little distance or by lowering the fields a few inches; failing this it may be better occasionally to take up land specially for repairs than to acquire the wider margin generally where the embankments run through wet lands.

No. 90, 8th January 1870.

C.—Sanction for the survey parties asked for by the District Engineer for petty irrigation projects should be applied for on a specification of work to be done and of the time it is to occupy, and it will then be granted under the authority given in G. O., No. 581, dated 5th March 1874. In a great delta like Tanjore there must always be a large amount of petty levelling and survey work to be done, and what is at present required is the introduction of a system somewhat resembling task-work for Surveyors, so that an adequate return for the cost of such establishments may be secured.

D.—The District Engineer should take care that plans and estimates of the river margin and embankment lands to be acquired are sent up in sections from time to time as soon as the arrangements and compensation may be settled.

G. O., 30th March 1871, No. 941, paragraph 3.

OOTACAMUND,
26th May 1874.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 624. ORDER THEREON, 30th June 1874, No. 1,753.

IRRIGATION, No. 54.
Establishment.

THE above note by the Chief Engineer for Irrigation reviews the applications for Survey Establishments to be employed during 1874-75 on projects other than those to be classed as Extraordinary.

2. In the Ganjam District a sum of Rupees 180 is sanctioned for the purpose specified.

3. Under the circumstances explained by the Chief Engineer for Irrigation, the application of the District Engineer, Godavery, for an establishment at a cost of Rupees 430 is disallowed.

4. Application for the Survey Establishment required in the Nellore District should be specially made to the Chief Engineer for Irrigation, supported by the requisite information.

5. A sum of Rupees 176 is sanctioned for the levels required for the repair of the Corjiliar and Narrainavaram river embankments, but sanction to the establishments required in connection with the Madras Water Works Project is withheld, pending the submission of information as to the work to be done.

6. The attention of the District Engineer, South Arcot, is called to the remarks of the Chief Engineer for Irrigation, and he will be guided by the instructions given. Detailed explanations are necessary before further Survey Establishments are sanctioned for this district, applications for which should be submitted to the Chief Engineer for Irrigation.

7. A survey party for four months and a Draughtsman for six months are sanctioned for the completion of the survey of the river margins in the Tanjore District, but the special attention of the District Engineer will be given to the remarks of the Chief Engineer for Irrigation as to the scale on which the work should be carried out, and the land to be taken up along the river embankments. The survey parties required for petty irrigation projects will be sanctioned by the Chief Engineer for Irrigation on satisfactory specifications of the work to be done being supplied.

8. The amounts authorized in these orders are shown in the tabular statement below, and are allotted from the Budget provision for Survey Establishments, "Ordinary—"

ORDINARY.

Statement of Temporary Survey Establishments required for the year 1874-75.

		Rs.	Rs.	
Ganjam ...	1 Surveyor	50		
	6 Lascars, at 6 Rs. each	36		
	Contingencies ...	4		
		90	180	For two months.
Chingleput ...	1 Surveyor	60		
	4 Lascars, at 7 Rs. each	28		
		88	176	Do. do.
Tanjore ...	1 Surveyor	50		
	6 Lascars, at 6 Rs. each	36		
		86	344	For four months.
	1 Draughtsman ...	20	120	For six months.
			464	

---

9. The survey party required in connection with the East Coast Canal has been sanctioned in G. O., No. 109 A, dated 16th January 1874, and should be continued as therein ordered.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the District Engineer, Ganjam.
,, ,, Godavery.
,, ,, Nellore.
,, ,, Chingleput.
,, ,, South Arcot.
,, ,, Tanjore.
,, Officiating Controller of Public Works Accounts.
,, Chief Engineer for Irrigation.

Exd. E. C. Shunker.
Spare Copies

Note by Chief Engineer for Irrigation

Temporary Survey Establishment 1874-75

Ordinary.

Ganjam. The cost Rupees 180 of surveying and levelling 2 tamparas or lakes in this District may be sanctione

Godavery. The District Engineer asks for sanction for an Establishment for 6 months at a cost of Rs 480 for surveying river embankments, and he quotes G.O. No 3026 of the 19th December 1872 as sanctioning the execution of these surveys, but that relates to the preparatio of Surveys or charts of the rivers for purposes of conservancy. No information has been given as to the amount of work done and remaining to be done + and moreover provision has been made in the revised scale of conservancy establishment for such survey work as appears to be here contemplated.

+ G. O. No 1038 of 22nd Apl/74

Nellore

Sanction for Survey establishments for small projects and to contour tanks should be applied for with reference to G. O. No 581 dated 5th March 1874 and a specification of the work to be done and of the time required to do it should accompany the application.

Chingleput

The estimated cost, Rupees 176, of the levels required for the repair of the Kortilear and Narrainaveram river embankments may be sanctioned. The other establishment in connection with the Madras Water Works project should not be sanctioned until it has been clearly shown what the Surveyor is to do.

vide para 6 of Lettr No 1652 25th June 1873.

South Arcot.

The District Engineer asks for sanction for

2 Surveyors at 50 Rs	100
16 Lascars at 6 "	96
	196

for preparing surveys, levels and estimates for certain new and maintenance works detailed in two lists, and it is intimated that these estimates are intended for execution in 1874-75. The estimates are expected to amount for the

Chellambrum Taluq to Rs	2,45,000
Virdachellam "	63,000
Kullakurchy "	15,000
	3,23,000

For the present it will be best to confine investigations in the South Arcot District to those required in connection with works already in progress or with the proper maintenance of existing works. For these the lists should be more detailed; the District Engineer should have a fairly definite idea of what improvements the works require, and of the extent of surveying or levelling needed for the preparation of suitable estimates; he will then know approximately for what time a survey party will be required. He should also with his application for the sanction of survey establishment give a short account of the scope of any considerable improvements contemplated. There are works in the Chellumbram Taluq list for instance requiring which explanation is certainly required, for the clearing of channels

leading

leading from tank sluices to the fields is not usually a charge against the repair grant; such are the proposals to spend a lakh of Rupees on the channels of the Vadavaur and Viranam tank and 20,000 Rupees on the channels of the Wallajah tank. For the repair of the Coleroon North Bank levels are no doubt required. It is probable that the District Engineer, Tanjore, will very shortly be able to furnish them; but, should the embankment levels not be taken by the Survey party employed on the Coleroon survey, sanction will be given under G. O. No. 581 dated 5th March 1874 on its being reported what number of miles have to be levelled and what the cost will be. For such work it should be understood indeed that an estimate on fairly accurate data based upon the extent of work to be done is necessary. All the assistance that is wanted to enable District Engineers to get the work that is required done and to prevent outlay on work that is not needed may with advantage be afforded, but every precaution must be taken to prevent survey parties wasting their time for want of definite instructions or spending their time unprofitably in doing work which may be of little or no use.

The connection of detached levels will be an eminently useful work in all extensively irrigated parts of the country, and estimates for such will be sanctioned or recommended for sanction if properly prepared

In

In G.O. No 2416 of the 20th October 1873 sanction for further charges for the Survey Establishment employed on the Pullagacherry project to the extent of Rs 340 was given and Rs 226 were expended within the year. In his statement for 1874-75 the District Engineer applies for further sanction for Rs 344 stating that the work had not been completed owing to the illness of the Surveyor and that the additional cost is necessary because some work done by a former Surveyor was wrong, and had to be done over again. The additional sanction asked for is 230 Rupees and this would represent about 2⅓ months work for a Surveyor and lascars, and if that amount of work has been wrongly done, blame would appear to attach to the officer under whom the Surveyor was employed. In the absence of much more satisfactory explanations than have been given, no further sanction should be accorded.

Tanjore

A survey party for 4 months and a Draughtsman for 6 months may be sanctioned for the completion of the survey of the river margins. The District Engineer states that the scale on which the Cauvery and Codamoorty surveys have been plotted is too small for taking up land: this scale is $208\frac{1}{3}$ feet to the inch, and the scale of the plans on which all land is made over to the Madras Irrigation Canal Company is 264 feet to the inch, so that, if attention be paid to the remarks contained in para 8 of the Note

$\frac{1}{2500}$

printed

printed in Proceedings Madras Govt of the 8th January 1870, No. 90, the $\frac{1}{2500}$ scale should suffice.

A. It is necessary to remark that in deciding what land should be taken up, the necessary alterations of the alignment of the river embankments should be fully considered. In some places these are at present so aligned as to be unsafe, while elsewhere they in high freshes act somewhat as groynes, and divert the current injuriously. It should not be overlooked that the margins to be acquired on either side of an embankment are to be measured from the toe of the slope when the banks are of their proper section.

B. In para 9 of his letter Major Mead explains how he understands the margins laid down as proper to be taken up or reserved in the papers printed with the order just referred to. Remembering that the Cauvery and Codamoorty are referred to, he is right in supposing that on the river side of the embankments a strip of 12 yards is to be acquired on the edge of the river bank and a similar strip at the foot of the embankment, so that where the berm or padugay is not more than 24 yards wide the whole will be taken up. On the other side of the embankment 12 yards may be acquired where the land is waste, 8 yards where under dry cultivation, and 4 yards where under wet cultivation: the object being to reduce as far as possible the width of the berm where land is valuable. In many cases earth for repairs could be obtained either from some little distance or by lowering the fields a few inches: failing this it may be better occasionally to take up land specially for repairs than to acquire the wider margin generally where the embankments run through wet lands.

C Sanction for the Survey parties asked for by the District Engineer for petty irrigation projects should be applied for on a specification of work to be done, and of the time it is to occupy, and it will then be granted under the authority given in G. O. No. 581 dated 5th March 1874. In a great Delta like Tanjore there must always be a large amount

Ds. 90 - 8th Jany/76

amount of petty levelling and survey work to be done, and what is at present required is the introduction of a system somewhat resembling task work for surveyors, so that an adequate return for the cost of such establishments may be secured.

D. The District Engineer should take care that plans and estimates of the river margin and embankment lands to be acquired are sent up in sections from time to time as soon as the arrangements and compensation may be settled. G.O. 30th March 1871 No 741 Para 3-

W. H. Mullins

Lieutt Coll. R.E.
Chief Engineer
for Irrigation

Ootacamund
26th May 1874.

To,
The Secy. to Government
P.W.D.

Rd. 12 June 74

18

P. W. 1874

From

The Chief Eng. to
for Irrigation

Dd. 26 May 1874
Rd. 12 June 74

Enclos.

P. W. 1874 Dept
Pro. of Govt. for Irrig.

No. 3575

From

The Chief Engr.
for Irrigation

Dd 26 May 1874
Rd 12 June 1874

Enclos 10

Ell No: 1753. 30-6-74

Submitting
a statement of the
requirements for
temporary Survey
establishments under
Ordinary for 1874-75.

No 623

Office Tinnevelly
1st April 74

Geo. Rundall
District Engineer
Tinnevelly

District Engineers Office
23 March 1874

No. 509

From
The District Engineer
Trichinopoly

To
The Controller
of Public Works Accounts
Madras

Sir

Enclosure 1

With reference to your memo No. 206 of the 16th instant, I have the honor to submit for transmission to Government the accompanying Statement of the Survey Establishment which is proposed to be employed during the Official Year 1874/75.

2. The Services of the Establishment sanctioned in G.O. No. 1652, of 25 June 1873 were not made available during the year 1873/74.

I have the honor to be
Sir
Your most obedient Servant

C.E.
Assistt Engr in charge

No. 1874 Dept

Trichinopoly District

From No. 1837

The District Engineer

Trichinopoly

To

The Controller

Public Works Accounts

Madras

Dated 23rd March 1874

Received 27th

No. 509

Enclosure One

Submits the Statement of the Survey establishment proposed to be employed during the year 1874/75.

Transferred to the Secretary to Government Public Works Department with reference to this Office printed Memo No. 2205 of the 16th March 1874.

Madras
26th March 74

Offg Controller of P.W. Accts

The Secretary to Government
P.W. Department

W. Rundall
District Engineer
Tinnevelly

Palamcottah 1st April 1874

Oc 62

No 623

Pub: Works 1874 Dept.
From
No: 2135.
The District Engineer
Trichinopoly
To
The Secretary to Govt
D.P.W.
Dated [illegible] April 1874.

Form B

Statement of Temporary Survey Establishments required for Imperial Projects other than Extraordinary during the year 1874-75.

B.

Trichinopoly District

Statement of Temporary Survey Establishment required for Imperial Project other than Extraordinary during the Year 1874/75.

Details of Establishment		Period for which required	Total Cost	Explanation of Necessity	Remarks
	Monthly Charge R. A. P				
One Surveyor	50 . 0 . 0	3 months	150-0-0	For laying down bench marks on Irrigation masonry works reduced to mean sea level	Vide Irrigation Chief Engr Circular No 163 of 13th March 1873.
5 Lascars	6 . 0 . 0		90-0-0		
			240-0-0		

District Engineer's Office
23rd March 1874

[illegible] C.E.
Assistant Engineer in Charge

PW 1874 Dept.

No. 2429.

From ~~Mr [illegible]~~
~~Malabar~~ Distl PW Accts
Mr

Dy 21 }
No. 23 } Apl 74
Recd 29th apl Enclo: 1

Transferring
Statement of temporary
Survey Establish-
ment required in
the Malabar Dt.
During 1874/75

G.O. No 1753-30-6-74-

Refd to Actg 23 Apl/74

Transferred to the Secretary to Govern-
-ment Public Works Department
with reference to this Office printed
Memo No 8205 of the 14 March 1874

Office of the Contr of P.W.
Accounts
Fort Saint George
21 April 1874

Offg Contr of PW Accts

Puby Works 1874 Dept.
From No: 2071.
The District Engineer
of Nellore

To
The Secretary to Government
Public Works Departt
Fort Saint George
Madras

Camp Yelavally
Dated 1st April 1874
Despd 3d
Recd 8th

No 3
Encl. 2.

Submits for Sanction a Statement Showing the Sum required for Temporary Survey Establishment in the Nellore District during 1874-75

3d Series 62
62

G.O. No 1753-30-6-74

Refd to Acctg 8 Apl/74 R. 11 June/74

From,
The Dist. Engineer
Malabar
To
the Controller [illegible]
Madras
Recd. 3 April 1874.

Reference No 5726 of
14th March 1874.

Statement showing funds required, for temporary Survey Establishment in connexion with Irrigation, for the year 1874-75.

Nil P.W. 2429/74

W. Barrington

Dist. Engineer
Malabar

---

during 1874/75 for maturing Irrigation schemes which are likely to be classed as Extraordinary.

Nil

Henry W. Robart Capt. R.E.
Dist. Engr. Bangalore

DISTRICT ENGINEER'S OFFICE

No.
Bangalore

From

The District Engineer
Bangalore

To

The Controller
P.W.A.

Dated 21st April } 1874.
Received 24/4/

Enclosures

His No. of P.W. 2462/
2/74

Statement showing details for survey Establishments proposed to be employed

---

19

Projects other than Extraordinary during the year 1874/75 - Nil

Capt. R.E.
Distt Engr Bangalore

DISTRICT ENGINEER'S OFFICE

No. Bangalore

From

The District Engineer

Bangalore

To

The Controller
P.W.A.

Dated 21st April } 1874
Received

Enclosures

His No. of P.W. 2462/74

Statement of temporary Survey Establish-ments required for Imperial

Pub. Works 1874 Dept.
No: 2462.

From

The offg Contr of P.W. Accts

Dated 22nd } April/74.
Received 24th }
" — 30th

Enclo. 2.

Submitting

Statements of temporary Survey establishments required for Imperial Ordinary & Extraordinary Irrigation Projects in Bangalore during 1874-75 —

f. o. No 1753-30-6-74

Duplo to Acty 24 Apl/74 R 29

Transferred to the Secretary to Government Public Works department with reference to this office printed Memo. No 8205 of 14 March 1874. 21

Office of the Controller }
of P.W. Accounts }
Fort Saint George }
22d April 1874 }

Offg Contr of P.W. Accts

No 3

District Engineer's Office.
Camp Yedavally,
1st April 1874.

From.
R. Smith Esquire,
District Engineer of
Nellore.

To.
Colonel G. W. Walker R.E.,
Secretary to Government,
P.W. Department,
Fort St. George.

Sir,

Enclo. 2.

In accordance with the suggestion conveyed, in a circular Memo.* from the Controller of P.W. Accounts, I have the honor to submit for sanction a Statement showing the sum required for temporary Survey Establishments in this District, during 1874-75. A Nil Statement is also enclosed.

* No. 8205 dated 14th March 1874.

I have the honor &c.

Sir,

Your most obedient Servant.

J Smith

District Engineer.

M.D.C.

Form B

Statement of Temporary Survey Establishment required for Imperial projects other than Extraordinary during the Year 1874-75

Details of Establishment	Monthly Charges	Period for which required	Total cost	Explanation of necessity	Remarks
			Rs.		
1 Surveyor	60			For the investigation of small projects and to contour and ascertain the capacities of Tanks	Included in Irrigation Budget for 1874-75
6 Lascars at Rs 6 per Mensem	36				
	96	For 12 Months	1152		
2 Surveyors at Rs. 70 per Mensem	140			For employment on the East Coast Canal between Kris-tnapatam and China Ganjam.	Authorized in G.O. No 109 dated 16th January 1874.
2 Draughtsmen at Rs 40 - Do	80				
12 Lascars at Rs 6 Do	72				
Contingencies	8				
	300	For 4 Months	1200		
		Total	2352		

District Engineer's Office
Camp, Uplavally
1st April 1874

M.D.C.

J Smith
District Engineer.

Enclosure in a letter No 3 dated 1st April 1874 from the District Engineer of Nellore to the Secretary to Government P.W.D.

P.W. 2071/2/74.

Form B

Statement of temporary Survey Establishments required for Imperial Projects other than Extra-ordinary during the year 1874-75

Nellore District.
Form A.

Statement showing details of Survey Establishment proposed to be employed during 1874-75 for maturing Irrigation Schemes which are likely to be classed as "Extraordinary".

Nil

District Engineer's Office
1st April 1874
Camp Yelavally

J Smith
District Engineer

R
E.O.C.

Enclosure in a letter No 3 dated 1st April 1874 from the District Engineer of Nellore to the Secretary to Government P.W.D.

vid.
[illegible]

P.W. 2071/74
1

Form A.

Statement showing details of Survey Establishment proposed to be employed during 1874-75

SUPERINTENDING ENGINEER'S OFFICE, 1st DIVISION,
DOWLAISHWARUM, 17th April 1874

No. 174

From

District
The ~~Superintending~~ Engineer
~~1st Division~~
Godavery

To

The Controller of
Public Works Accounts
MADRAS

SIR,

Enclosure 2

I have the honor to forward herewith 2 statements of Temporary Survey Establishments required during the current official year and request you will be good enough to obtain early orders on the same.

I have the honor to be
Sir
your most obedient Servant

Lieut. Col. R.E.
District Engineer Godavery

P.W. 2450/74
3

Godavery District

Statement of Temporary Survey Establishments required for imperial projects other than Extraordinary during 1874/75

Details of Establishment	monthly charge	Period for which required	Total Cost	Explanation of necessity	Remarks
1 Surveyor at Rs 50	50			For surveying river embankments sanctioned in G.O. No. 3026 dated 19th December 1872.	
5 Lascars at Rs 6	30				
	80	6	480		

District Engr's Office Godavery } Wm. H. Fischer Lieutt. Col. R.E.
Dowlaishweram 17 April /74 } District Engineer Godavery

Godavery District

Statement shewing details of Survey Establishments proposed to be employed during 1874/75 for maturing irrigation schemes which are likely to be classed as Extraordinary

Details of Establishment	Monthly charge	Period for which required	Total Cost	Particular survey for which required	Grounds on which it is expected that the Project will be undertaken from loan funds	Remarks
Eastern Delta				River banks, Canals, Distribution Channels &c. connected with Delta Project	Estimates already sanctioned	Several minor irrigating channels drainage channels in connection with main drains deviations from sanctioned designed designs river embankments &c. have to be surveyed and levelled for this year and much more assistance is absolutely required.
3 Surveyors at Rs 50 each	150					
12 Lascars at 6	72					
Same as last year 74	222	12	888 2664			
Western Delta					Do	
3 Surveyors at Rs 50 each	150					
12 Lascars at 6	72					
Same as last year	222 74	12	888 2664			
Central Delta					Estimates submitted to the Chief Engineer for Irrigation	
3 Surveyors at Rs 50 each	150					
12 Lascars at 6	72					
	222	6	1332			
			6660			

District Engr's Office Godavery
Dowlaishweram
17th April 1874

Lieutt. Col. R.E.
District Engineer Godavery

Pr 1874 Dept

No 2430

From Ordinary

the Comptroller of P.W. Accts.

2/5/74

Dy 21 }
No 23 } Apl 74

Rec. 29th — Enclos.

Transferring letter from the S. Engr., Godavery, submitting statement of Survey Establishment required during 1874-75.

fo. No 1753-~~30-6-74~~

Despd to Actg 23 Apl/74

DISTRICT ENGINEER'S OFFICE, GANJAM,

No. //

Transferred to the Secretary to Government Public Works Department with reference to this Office printed Memo No. 8203 of the 12th March 1874.

Office of the Comptr. of P.W. Accts
Fort St George
21st April 1874

Offg Comptroller of P.W. Accts.

No. 11

District Engineer's Office, Ganjam,
Berhampore
31st March 1874.

From

The District Engineer,

Ganjam.

To

The Secretary to Govt
Public Works Dept
Madras.

Enclosures 1

Sir,

Under instructions from the Controller of Public Works Accounts Madras I have the honor to forward a Statement of Temporary Survey Establishments required for Imperial projects other than Extra-ordinary during the year 1874-75 in order to timely sanction being accorded.—

I

I have the honor to be
Sir
Your most obt. Servant
H Smalley Major RE
Offg District Engineer
Ganjam

Pub. Works 1874 Dept.
No: 2089

From
THE DISTRICT ENGINEER,
GANJAM.

To
The Secretary to Government P.W.D.
Madras

No. 11

Dated 31st March
Despatched 1st April } 1874
Received 9 "

Enclosures 1

Forwards a Statement of Temporary Survey Establishment required for Imperial projects other than Extra-ordinary during 1874/75 for sanction.
G.O. No. 1753-30-6-74.

R. 11 June/74
[illegible] 9 [illegible]/74

Form B

Statement of Temporary Survey Establishments required for Imperial Projects other than Extra-ordinary during the year 1874-75

Details of Establishment	Monthly Charge	Period for which required	Total Cost	Explanation of necessity	Remarks
Surveyor	50	2		For surveying and levelling the Lutchmipuram and Gonga Tamparas with a view to drain them and thereby bring a considerable extent of land in each under cultivation.—	Both these works are recommended by the Collector of the District
Lascars	36 (all three)	Months	180		
Contingencies	4				

Dist. Engrs Office
Camp Berhampore
31st March 74

H. Mullins Major R.E.
Offg District Engineer Ganjam

No 21

South Arcot District

Statement of Temporary Survey Establishment required for Imperial projects other than Extraordinary during the year 1874-75.

Details of Establishment		Period for which required	Total Cost	Explanation of necessity	Remarks
1 Draftsman & Estimator	50	4 Months	200	For completing the field work & drawings & estimates of the Pallia-gachery project, sanctioned in G.O. No 2416 of the 2nd October 1873.	× this includes Rs 75 due to the surveyor. Of the sum of Rs 340 granted only Rs 226-7-3 has been spent in 1873-74. The investigation of the project was not completed owing to the illness of the Surveyor, & the additional cost is necessary as some of the work done by a former surveyor was found wrong & had to be done again by the present surveyor.
1 Lascar	6	4 Do	24		
1 Surveyor for 2 Months	60	2 Do	120×		
			344		
1 Surveyor & Draftsman	50	3 Do	150	For the investigation of the Akkur Anicut project, sanctioned in G.O. No 2380 of 29th Sept/73. This project was not taken in hand, as the Distt. Engineer could not find time & no outlay was incurred from the sum granted in the G.O.	
4 Lascars	6	3 Do	72		
			222		
		Total Rupees	566		

The salary of [illegible] is Rs [illegible]
[illegible] in the old [illegible]
for [illegible] put up

Distt. Engr's Office S. Arcot
Pattamkottam 29th April/74

To
The Secretary to Government
D. P. W.

[illegible]
Distt. Engineer

W. 2089/7

M. 10 June 14.

G.O. No 1753-30-6-74

Pub: Works 1874 Sept
No: 2521

From
The Dist. Engineer
South Arcot
To
The Secy to Govt. P.W.D.

Dated 22nd } April 1874
Recd 28th }
No. 21

Statement of Temporary Survey Establishment required for Imperial Projects other than Extraordinary during the year 1874-75

2071-2089-2429-2430-2462

175

Pub: Works Departt.

Proceedings of the Madras Govt.

Read the following:-

From the Chief Engr. for Irrigation } (C. E. No. — d 26th May/74)

The above Note by the Chief Engineer for Irrigation reviews the applications for Survey Establishments to be employed during 1874-75 on projects other than those to be classed as Extraordinary.

In the Ganjam District a sum of Rs 180 is sanctioned for the purpose specified.

Under the circumstances explained by the Chief Engineer for Irrigation the application of the District Engineer Godavery for an Establishment at a cost of Rs 480 is disallowed.

Vide Works 1874 Sept No: 2521

Application for the Survey Establishment required in the Nellore District should be specially made to the Chief Engineer for Irrigation, supported by the requisite information.

A sum of Rs 176 is sanctioned for the levels required for the repair of the Portillar and Narraivaveram river Embankments, but sanction to the Establishments required in connection with the Madras Water Works Project is withheld, pending the submission of information as to the work to be done ~~its necessity~~.

The attention of the District Engineer South Arcot is called to the remarks of the Chief Engineer for Irrigation and he will be guided by the instructions given. Detailed explanations are necessary before further survey Establishments are sanctioned for this District. Application for which should be submitted to the Chief Engineer for Irrigation.

A Survey party for 4 months and a Draughtsman for 6 months are sanctioned for the completion of the Survey of the river margins in the Tanjore District, but the special attention of the District Engineer will be given to the remarks of the Chief Engineer for Irrigation as to the scale on which the work should be carried out, and the land to be taken up along the river embankments. The Survey parties required for petty Irrigation projects will be sanctioned by the Chief Engineer for Irrigation on satisfactory specifications of the work to be done being supplied.

The amounts authorized in these orders are shown in the Tabular statement below, and are allotted from the Budget provision for Survey Establishments "Ordinary".

H. E.

Ordinary

Statement of temporary Survey Establishments required for the year 1876-78

Ganjam	1 Surveyor	50		
	6 Lascars @ 6	36		
	Contingencies	4		For 2 months
		90	180	
Chingleput	1 Surveyor	60		
	4 Lascars @ 7	28		Do Do
		88	176	
Tanjore	1 Surveyor	50		
	6 Lascars @ 6	36		For 4 months
		86	344	
	1 Draughtsman	20	120	For 6 months
			464	

should be continued as therein ordered.

W.O. by. 1/6/74

To, The Dt. Engr. Tanjore ✓
" " " Godavery ✓
" " " Bellary ✓
" " " Chingleput ✓
" " " South Arcot ✓
" " " Tanjore ✓
" Contr. P.W. Acts. ✓
" Chief Engr. for Irrign. with 10 Encl. ✓

S. Copies despd. to all 10/7/74.

R. 11 June 1874

35757

Govt. of 1874. Madras.

PUBLIC WORKS.

To The Dist Engr Ganjam

Dated

Recd. Encl.

G. O. 30th June 1874 No. 1753

Nos. 623-624.

~~Sur~~ Survey Establishments - Sanctioning the employment of the temporary survey Establishment required in certain Districts under Ordinary for 1874-75 with remarks —

623-624.

R. 11 June/74
Cir 5/6/74 - Rd 9/6/74