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lin 30/4.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 23rd April/85

READ the following:—

The Government sanction
the entertainment of a temporary
Draftsman, on Rs 40 per mensem,
for a period of ^{one month} ~~five months~~
for the preparation of the drawings
detailed in the above Note by
the Chief Engineer for Irrigation.

ASR

13.4.85

15/4/85

2. This sanction has
been registered as
Order No 7 of 1885.
& classified as Estate
Temporary.

Chas. Loring
42 W. 42 St.

the following are wanted.

1. The section as first constructed
- 2 do as strengthened
- 3 do of 1858 - Colonel Lawford's
- 4 do of Colonel Arthur bottom 1859.
- 5 do as adopted for the extension after flood of 1874.

Similarly for the Chatia top anicut are wanted

1. The section as it was a few years ago.
- 2 do showing the additions made about 1800-81 to make it more secure.

For Pelaudorai

1. The section as originally built
- 2 do as revised about 1810-81.

4. All the sections to be drawn out on half sheets or where necessary whole sheets of foolscap size, that being the intended size of the manual. The scale of the full section will be the largest that the paper will allow and details which cannot be clearly shown on that scale should be separately shown on $\frac{1}{100}$ or $\frac{1}{50}$ as may be expedient.

Dowlaislueram } Part Plan & full sections
Vigeshlueram } with details of shutters and gear.
Sangaw } do do

Caleroon upper. One set in plan and sections with shutter arrangements.

Miscellaneous.

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A copy of the lithographed diagram of Gauge for small rivers or drains. Professional Circular No 51.

For and Col. R.R.

Chief Engineer for Bridges

Undersluices

Venmar. Vellar head. Small scale general plan. River Regulators
longitudinal and cross sections with
detail of shutter and gear.

Cauvery. Kodamurti head. do do

Cauvery. Venmar (new) head }
at Grand Anicut } do do

Aqueducts & under-
tunnels.

Godavari. Ellora Canal. one about 20 mile
do. Gummaram Aqueduct. as improved, part plan
with sections

Kistna. Ellora Canal. new Aqueduct about 9 mile
do. Sanlipatam Canal. Sultana Garam
do. Commamur Canal. Jagarlammudi 2 vent culvert
with surplus weir.

Drainage outfall
sluices

Godavari R.D. - Nakkala outfall sluice

Godavari - one of those in river embankment above
Dowlaishwarau

Canal Surplus Weir

Godavari R.D. - Kundamur.

do C.D. - Head of Taki drain

Locks & Lock Weir

Godavari R.D. - Head Lock. main Canal

do R.D. - Sidab Lock. Marapur Canal

do C.D. - Bank Canal - first lock & lock weir.

Kistna R.D. - Commamur Canal. Nallamada
lock & lock weir

Kistna. do. do. - Sidab lock
Buckingham Canal - one of the new locks at
junction of canal and
river e.g. that at north
side of Adayar.

Full plans - longitudinal & cross sections & details
of culverts, gates &c.

List of Plans desired from the office of the Chief
Engineer for Irrigation in illustration of text of
Manual of Irrigation

Anicuts

cross sections of the following

1. Phatitopu across Vellar
2. Pelandurai do
3. Trivaitkuntam do Tambaparni
4. Upper Coleroon
5. Lower do
6. Godavari
7. Penner at Kellora
8. do at Tangam
9. do at Admapalli. do. I and C Co
10. Kistna at Berwada

N.B. 1. The maximum flood level to be shown on cross section
2. The following information to be noted on plan
The estimated maximum flood discharge
" length of the crest
" area of the catchment.

3. whenever practicable the modifications of
Section to be shown by sections giving the
original and subsequent forms. e.g.

The original Penner anicut at Kellora was a very
weak structure. about 1855-56 it was strengthened
in 1858 an entirely new design was substituted
by Colonel Lawford and this failing another design
was made by Colonel Sir Arthur Cotton. Subse-
quently the Section was further strengthened
after the flood of 1874. Therefore for this anicut
the

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Soonkesalaw Anicut. Mr. J. H. C. plan & sections with detail of shutters & ca 965

Head Sluices
Connected with Anicuts

Dowlaisluveram - Main Canal C. D. 4
plan, sections & shutter gear & ca

Bobber, lunka Main Canal C. D. with
do do

Bezuvada - Main Canal C. D. do do

Litanafarum do W. D. do do

Adimapielli - at head of 10 Section Main Canal
with do do

Tamburapanni - at head of Cannadian Channel
& at head of one other Channel with do-do

The F.L. above and F.S.L. below to be shown on each and the level of crest of anicut.

The acreage to be supplied and the discharge for which designed to be noted.

Head Sluices
Secondary Canal
or Channel

Samalkote Canal - plans & of 2 of the side
Channel sluices

Undi Canal W. D. new head sluice

harsapur Canal one of the new sluices

Histna W. D. Main Canal } head sluice

Dugirala } East side Channel head sluice

Commamur Canal - Channel L B above Kollimara lock

Commamur Canal - 3. arch stone bridge in 1st Reach
(Holkallur)

Bridges

Undi Canal - Bridge (iron lattice) across 1st reach

Venkiak and Meyeru do do just below head of Kusi Canal

Ellore Canal Histna - Stone Bridge built by Mr. Peters

HEAD SLUICES, SECONDARY CANAL OR CHANNEL.

Sámalkót canal—Plans, &c., of two of the side channel sluices.
 Undi canal, Western division—New head sluice.
 Narsápur canal, Western division—One of the new sluices.
 Ryves' canal, Kistna Eastern division—Head sluice.
 Kistna Western division, Main canal } —East side channel head sluice.
 Dugirla
 Commamur canal—Channel, L.B. above Kolimerla lock.

BRIDGES.

Commamur canal—Three arch stone bridge in first reach (Kolikallur).
 Undi canal—Bridge (iron lattice) across first reach.
 Venkiah and Weyeru—Bridge (iron lattice) just below head of Undi canal.
 Ellore canal, Kistna—Stone bridge built by Mr. Peters.

RIVER REGULATORS.

Vennár-Vettár head—Small scale general plan, longitudinal and cross sections with detail of shutter and gear.
 Cauvery-Kodamurti head—Small scale general plan, longitudinal and cross sections with detail of shutter and gear.
 Cauvery-Vennár (new) head at Grand anicut—Small scale general plan, longitudinal and cross sections with detail of shutter and gear.

AQUEDUCTS AND UNDER TUNNELS.

Godávari-Ellore canal—One about 20th mile.
 Godávari-Gunnaram aqueduct—As improved, part plan with sections.
 Kistna-Ellore canal—New aqueduct about 9th mile.
 Kistna-Masulipatam canal—Sultanagram.
 Kistna-Commamur canal—Jagarlamudi, two vent culvert with surplus weir.

DRAINAGE OUTFALL SLUICES.

Godávari Western division—Nakkala outfall sluice.
 Do. —One of those in river embankment above Dowlaishweram.

CANAL SURPLUS WEIR.

Godávari Western division—Nundamur.
 Do. Eastern division—Head of Taki drain.

LOCKS AND LOCK WEIRS.

Godávari Western division—Head lock, main canal.
 Do. do. —Tidal lock, Narsápur canal.
 Do. Eastern division, Bank canal—First lock and lock weir.
 Kistna Western division, Commamur canal—Nallamada lock and lock weir.
 Do. do. —Tidal lock.
 Buckingham canal—One of the new locks at junction of canal and river, e.g., that at north side of Adayar.
 Full plans—longitudinal and cross sections and details of culverts, gates, &c.

MISCELLANEOUS.

A copy of the lithographed diagram of gauge for small rivers or drains. Professional circular No. 51.

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

Note by the Chief Engineer for Irrigation

N^o 78-J.

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The accompanying list of plans is required by Major General Mullins R.E. for the preparation of a Presidency Manual of Irrigation—a work which has been in progress under that officer for some time past.

2. The complete information required will take some months to prepare, and it is therefore suggested that a temporary Draftsman, on a salary of Rs 40 per mensem, be specially engaged for the work for a period of six months.
3. The plans should be drawn on paper of foolscap size, and should be sent in batches, of a dozen or so at a time, through the India Office, to Major General Mullins, R.E., "Upfield," Guildford, Surrey, England.

4. The undersigned will draw up a Memo. for the information of General Mullins, regarding the cause of the recent failure of the Pelandora Anicut.

Noted
 15 April 1885

Asst. Chief Engineer for Irrigation
 Colonel R.E.

To The Joint Secretary to Govt.
 P. H. D. S. S. Branch

GENERAL.
ESTABLISHMENT.

Gobt. of (1885) Madras.

PUBLIC WORKS.

Dated April, 23rd.

Recd.

En

G.O., 23rd April 1885, No. 965 W.

APRIL.

Temporary Draftsman

Entertainment of a — by the Chief Engineer for Irrigation for preparation of plans required by Major-General Mullins, R.E., for the "Presidency Manual of Irrigation," sanctioned.

LIST OF PLANS DESIRED FROM THE OFFICE OF THE CHIEF ENGINEER
FOR IRRIGATION IN ILLUSTRATION OF TEXT OF MANUAL OF
IRRIGATION.

ANICUTS.

Cross sections of the following :—

1. Shatiatope across Vellár.
2. Pelandorai do.
3. Srivaikuntham do. Tâmbraparni.
4. Upper Coleroon.
5. Lower do.
6. Godávári.
7. Pennér at Nellore.
8. Do. at Sangam.
9. Do. at Odemapalli, Madras Irrigation and Canal Company.
10. Kistna at Bezváda.

N.B.—1. The maximum flood level to be shown on cross section.

2. The following information to be noted on plan :—

The estimated maximum flood discharge.

The length of the crest.

The area of the catchment.

3. Whenever practicable the modifications of section to be shown by sections giving the original and subsequent forms, e.g.,

The original Pennér anicut at Nellore was a very weak structure. About 1855-56 it was strengthened. In 1858 an entirely new design was substituted by Colonel Lawford, and this failing another design was made by Colonel Sir Arthur Cotton. Subsequently the section was further strengthened after the flood of 1874. Therefore for this anicut the following are wanted :—

1. The section as first constructed.
2. Do. as strengthened.
3. Do. of 1858, Colonel Lawford's.
4. Do. of Colonel Arthur Cotton, 1859.
5. Do. as adopted for the extension after flood of 1874.

Similarly for the Shatiatope anicut are wanted—

1. The section as it was a few years ago.
2. The section showing the additions made about 1880-81 to make it more secure.

For Pelandorai—

1. The section as originally built.
2. The section as revised about 1880-81.

4. All the sections to be drawn out on half sheets, or where necessary, whole sheets of foolscap size, that being the intended size of the manual. The scale of the full section will be the largest that the paper will allow, and details which cannot be clearly shown on that scale should be separately shown on $\frac{1}{64}$ or $\frac{1}{32}$ as may be expedient.

UNDER SLUICES.

Dowlaishweram } —Part plan and full sections with details of shutter and gear.

Vigeshweram } Do. do. do.

Sangam— One set in plan and sections with shutter arrangements.

Coleroon, upper— Madras Irrigation and Canal Company, plan and sections, with detail of shutters, &c.

HEAD SLUICES CONNECTED WITH ANICUTS.

Dowlaishweram—Main canal, Eastern division, plan, sections and shutter, gear, &c.

Dobberlunka—Main canal, Central division, with do. do.

Bezváda—Main canal, Eastern division, do. do. do.

Sitanagaram—Main canal, Western division, do. do. do.

Adimappilli—At head of 10th section, Main canal, with do. do.

Tâmbraparni—At head of Cannadian channel and at head of one other channel, with do. do.

The F.L. above and F.S.L. below to be shown on each and the level of crest of anicut.

The acreage to be supplied and the discharge for which designed to be noted.

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General
Establishment.

READ—the following paper :—

No. 78 I.

Note by the Chief Engineer for Irrigation.

The accompanying list of plans is required by Major-General Mullins, R.E., for the preparation of a Presidency Manual of Irrigation—a work which has been in progress under that officer for some time past.

2. The complete information required will take some months to prepare, and it is therefore suggested that a temporary draftsman, on a salary of Rs. 40 per mensem, be specially engaged for the work for a period of six months.

3. The plans should be drawn on paper of foolscap size, and should be sent in batches, of a dozen or so at a time, through the India office, to Major-General Mullins, R.E., "Uphill," Guildford Survey, England.

4. The undersigned will draw up a memorandum for the information of General Mullins, regarding the cause of the recent failure of the Pelandorai anicut.

OOTACAMUND,
15th April 1885.

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

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

ORDER—dated 23rd April 1885, No. 965 W., Public Works.

The Government sanction the entertainment of a temporary draftsman, on Rs. 40 per mensem, for a period of six months for the preparation of the drawings detailed in the above note by the Chief Engineer for Irrigation.

2. This sanction has been registered as Provincial No. 7 W. of 1885-86, and classified as Establishment, Temporary.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.

Exd. A. Grubert.
Spare Copies

(1) Number of pages 16
(2) Date of repair 9. 9. 87
(3) Initials of the Referencer [Signature]

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

pw.

DEPARTMENT

G.O. No.	965-W	Press.
B.P. No.		Mis.
Dated	23-4-1885	198

V. S. M

Not to be folded or roughly handled.

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Govt. of (1885) Madras.

PUBLIC WORKS.

Dated

24/4
Recd-27/4-96

Recd.

Encl.

G.O. 23^d Apr 1885, No. 965 W

Tempy Draftsman

Superintendent of
by the Survey for Irrigation
for preparation of plans
of Irrigation works required
by Major Genl Mullins
P.E. for the "Presidency
Manual of Irrigation"
sanctioned.

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24/4