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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. Tāmbraparni.
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 Bezvada.

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 $\frac{1}{100}$ or $\frac{1}{50}$ as may be expedient.

UNDER SLUICES.

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

Sangam— Do. do. do.

Coleroon, upper—One set in plan and sections with shutter arrangements.

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

HEAD SLUICES CONNECTED WITH ANICUTS.

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

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

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

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

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

Tāmbraparni—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.

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 (Kolikalur).
 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.

Godáviri-Ellore canal—One about 20th mile.
 Godáviri-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.

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

CANAL SURPLUS WEIR.

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

LOCKS AND LOCK WEIRS.

Godáviri 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.

23RD APRIL 1885, No. 965 W., PUBLIC WORKS.

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, (Signed) J. O. HASTED, Colonel, R.E.,
 15th April 1885. 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

GENERAL
ESTABLISHMENT.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated April, 23rd.

Recd.

Encl.

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.

E. I. Form No. 34-F.

GOVT.
OF MADRAS }

1886.

{ P. W.
DEPT.

CHIEF ENGINEER FOR IRRIGATION.

Madras, 16 January 1886.

OFFICE NOTE.

2015

Circulation Register.

To	From	Despatch Date.	Receipt Date.
W. E. J.			

Ref: G.O. No. 965 W
of 23rd April 1885

Sanction is requested to the entertainment of the draftsman for a further period of six months. Of 55 plans 25 have been completed and 2 are in hand as the plans have to be reduced from the originals an average of 4 to 5 days are required for each plan. Ant

Incl 372



No 173 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Jan. 20. 1886

Read the following

Office Note from the Chief Engr. for Irrigation. H. G. No: 15 d/16 January 1886.

8/16/1/86

Sanction is accorded to the continued employment, for a further period of six months, of a draftsman on Rs. 40 per mensem sanctioned in G. O. No: 965 W dated 23rd April 1885, for the office of the Ch. Engr. for Irrigation. This sanction has been registered as Provincial No: 56 W of 1885-86, and classified as Establishment, Temporary.

19/1/86

19-1-86

To
Chief Engineer for Irrigation
" Examiner of P. W. Accounts

Dec 21-1-86

19/1/86

Dec 21-1-86