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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No. 131 Press
B.P. No. Mis.

Dated 20.5.1873 196 .

Not to be folded or roughly handled

Read the foll g papers:—

No. 127. From Major J. O. HA , R. E., District Engineer, Kistna District, to Lieutenant-Colon HULLINS, R. E., Chief Engineer for Irrigation, dated Camp at M am, 13th March 1873, No. 45:—

With reference to your memora . 117, dated 24th ultimo, I have the honour to report that I gather fro cords of this Office, the drainage improvements which were discusse ided on in December 1870 related to the complete drainage of those f the Eastern and Western Deltas which are under the influence of ani and it was proposed to cut out the drainage channels so as to discharge to 1 inch of rainfall over the whole drainage area in 24 hours.

2. Designs and estimates for dr orks in accordance with this scheme have been prepared for the Western nd submitted with the Western Delta Project. It does not appear that any ainage works have been sanctioned or undertaken in this delta since Decemb 0.

3. Designs and estimates for dr works in the Eastern Delta are now under preparation and will be include e Eastern Delta Project, the necessary levels for the principal drainages have, just been informed, been plotted, and the estimating will be done as early ssible. The only new drainage work undertaken lately in this delta is a cut the Shevagunga sluice into the tidal creek, near the Fort, Masulipatam; on

Estimate Rupees 21,360, sanctioned in G. No. 1,928, of 14th June 1869.

is work an expenditure of Rupees ,574-6-3 has already been incurred, and I hope that a very considerable he work would have been completed by the end of the month, but I now ormed that the work has been much hindered by water. Probably the very son we have had has made the excava- tion of this channel a work of greate culty than it would be in an ordinary season, but I know it can only be carri in the dry weather, and I hope before next monsoon we shall be able to com it.

4. I am unwilling to offer my o inion on the points referred to by the Collector and Board of Revenue at t, as the Irrigation season was over before I joined the district. I may state however that I consider the drainages are among the first works of those projected that should be put in hand, as they will undoubtedly benefit existing cultivation and lead to its extension, but even when completed they will go but a little way to prevent such flooding and loss as has occurred from the excessive rainfall in last year.

No. 128. *Note by the Ch cer for Irrigation.*

On the receipt of G. O., No. the 14th February last, the District Engineer, Kistna, was requested to he information called for in the latter part of paragraph 1 of that order, a ply is now submitted for the informa- tion of Government. There is on intimately connected with drainage which he has omitted to notice, and that is the Budam Project, which was sanc-

No. 2,598, dated 31st October 1870.

tioned in the Order as per margin, and has been partially carried out, but made far less progress than was desirable as noticed in G. O.

dated 28th January 1873. This es
for the removal of a dam across the
and for the supply of the lands de

2. I regret that my note

Proceedings of the Madras Government, 10th March 1871, No. 722.

and refers to the drainage of nearl
posed, which was drawn out in cons

3. The works which of late
shown in the Progress Report, an
sanctioned for execution from the
pressing demands on account of irri
to be met from Loan Funds, and co
were called for, and have ever sinc
contained very little provision for
provide for a system which is inten
delta on a scale somewhat similar t

4. The pressing need for be
doubt much would have been don
been employed in the preparation c
the delta been formed and mainta
the staff being strengthened, it has
will be waste of time and money.
can be satisfactorily and efficient
competent officers.

5. The completion estimates
to Rupees 33,61,200, were received
ing examination; those of the caste
will elapse before they are ready, a
much less time than has since elapse

6. It may perhaps be useful to notice here that the waters from two kinds of drainage have to be dealt with. On the northern side of the Eastern Delta the Ellore Canal crosses the drainag[e] [a]n extensive tract of upland. Similarly, on the west and north of the W[est]ern Delta, upland drainage is crossed by the Conmamoor Channel. In thes[e] [provi]sion must be made for the passage of all flood waters, except in very [heavy] years indeed, as fast as they come down, and certainly for a great [extent] that of 1872. Works, however, of this class will only protect tho[se] [whi]ch they are constructed; they indeed only pass on water to the delta[ic] [whe]n it has to be got rid of by outfalls communicating directly or ind[irec]tly to the sea. Had the drainage works of the Ellore Canal been perfect, [and] the Conmamoor Channel been completed as intended, the lands near the C[oast] [on] the side of the delta, and those of the Bapulta Taluq on the other, would [not] have been in the slightest degree benefited. Again, the delta is cut up into comparatively small areas by the several canals, and [the] projects for the drainage of these individual areas have to

[ma]ned. In some cases there is no spec
[to] be fairly efficient. In others, I am
[exp]erienced will alone be practicable.
[sma]ller areas water will accumulate and
[cap]acity of artificial drains is concerne
[ar]e which will admit of about [one-]ths of a
[day] passing off in 24 hours. This may
[be] it will be a very great improve
[coun]try; secondly, a long time must ne
[to] be completed, during which exper
[revi]sion, if any, will be required; while,
[the] artificial works will have to disch
[wh]ich are themselves liable, after heavy fal
[wh]en the low lying lands are incapable
[ma]y of the Colair Lake are, I fear, unavoi
[ad]ded to be introduced into the Easter
[ap]preciable extent, faster into the lake.
[a] great expanse of shallow water by th
[rem]oved; the level of the water could be
[as] it has been proposed to drain the lak
[ma]y resulting from inundations would t
[per]manently submerged would be cultiva
[tem]porary inundations, which would last

If I understand paragraph 12 of
[to] place a dam across the outlet from th
[to] this outfall more efficient; if so, it w
[tem]porary benefit now at the expense of ine
[wi]th a free outfall the Colair lake rose to
[inun]dations, matters will not be improved

ST. GEORGE, (Signed) LLINS, Lieut.-Colonel, R.E.,
March 1873. *Chief Engineer for Irrigation.*

[ffi]culty in planning works which
[a] mitigation of the evils hitherto
[the] low lying parts of the several
[a] time to drain off. So far as the
[is] intended to provide these on a
[the] rainfall drainage from the whole
[mar]gin allowance, but in the first
[on] the present condition of the
[may] lapse before works on this scale
[can] be gained as to what further
[But] it must not be forgotten that most
[to] the minor rivers and streams,
[run], to become full to overflowing,
[ove]rflow. Inundations in the neighbour-
[hood] indeed the more efficient drainage
[the] will send water, though to an
[ext]ent as I am aware the outfall from
[Kol]lairu cannot be much, if at all,
[affe]cted to some extent, and at various
[spo]ts in all probability the inconveni-
[ence] aggravated, for the lands now
[that] they would still remain liable to
[thro]ugh sometimes to destroy the
[Doc]tor's letter that officer proposes
[to] which was removed in order to
[it] ly be advisable to obtain a slight
[for] greater inconveniences hereafter.
[a] gh a level as to occasion extensive
[ear]ly closing the outfall.

29. ORDER THEREON, 9th May 1873, No. 1,305.

IRRIGATION, No. 7.

[The] Government are glad to find
[the] drainage of the Kistna Delta
[is] taken up in a comprehensive
[com]pletion estimates have been
[the] pushing forward of the works
[of] on of irrigation, though much
[of] objects referred to in the latter
part of paragraph 2 of the Memo-
randum* by the Chief Engineer for
tion of the 11th January 1871, No. 7. The present District Engineer is
[ap]pointed for improving the means of drainage, and the

G. O., 10th March 1871, No. 722.

will look to him, in communica the Chief Engineer for Irrigation, so to
arrange for each season's expen hat works having this object in view may
make as rapid progress as possi

xtract.)

Colonel,
Secretary to Government.

To the District Engineer, Kistna.
,, Chief Engineer for Irrigation
,, Revenue Department.

No 131

20 June 73.

Rec'd 16th Sept
No 1424

Govt. of {1873} Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER, KISTNA.

&c., &c., &c.

Dated May 9th.

Recd. May 19 } 1873 *Encl.*

G. O., 9th May 1873, *No.* 1,305.

MAY

Nos. 127-129

Kistna Delta.—Passing orders on Note by the Chief Engineer for Irrigation on the drainage of the Kistna Delta.

No 131 - 20 May 1873