

Proceedings of the Madras Government, Public Works Department,
8th September 1875.

Read the following.—

No. 997.

No 140 Note by the Chief Engineer for Irrigation.

In paragraph 2 of the Inspection Notes printed in Proceedings, Madras Government, of the 15th July last, reference was made to the Choudrykal, a feeder of the Chembrambaukum Tank, by which the surplus from the Stripermatur Tank is diverted into the former. It was mentioned that the channel bank had breached extensively at the surplus weir, and that the extension of this was deemed by the Superintending Engineer to be necessary to prevent future accidents.

2. Some correspondence on the subject afterwards took place, and Colonel Moberly now reports that on a consideration of the circumstances and of the surplus to be disposed of, it will be advisable to lengthen the existing weir from 91½ to 190 feet. The evidence supports this conclusion, though probably the full velocity in the channel is not effective in augmentation of discharge over weir, and it is recommended that the estimate, amounting to Rupees 3,900, be sanctioned under Capital Chembrambaukum Tank Project, and be entered as an item of the revised estimate for that project now under preparation.

3. The commencement of the work, as reported, in anticipation of the sanction of the estimate was necessary, seeing that the surplus weir must be ready to discharge water by October at latest.

4. The contraction of the space between the rear wings is not a desirable arrangement. It would have been better to have struck the curve from the line of the rear retaining wall, and to have made this wall 10 to 12 feet longer than the body wall. The rear returns are somewhat short. In the specification it is mentioned that a part of the extension will rest on made earth filled in at the breach, this is altogether opposed to approved practice, and can hardly fail to lead to settlements and cracks. If not too late, something not liable to material compression should be substituted for earth. Concrete is the best material, but good clean gravel rammed down perfectly hard in very thin layers would answer, and might be used if the hole be large, while another alternative would be the carrying of the walls at this part on piers, arches and inverts.

5. Apparently the old right wing is to be removed and rebuilt, because probably it is not capable of being raised, but the specification is silent on the subject.

6. The maximum water level is intended to be 3 feet above the crest of the weir, which latter is to be at 95.00 above mean sea level. The wing walls will give a margin of 3½ feet above M. W. L., and the channel banks are shown as still higher.

OOTACAMUND, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
27th August 1875 Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department.
8th September 1875

AGRICULTURAL—ORDINARY—CAPITAL

ABSTRACT ESTIMATE, No 125 of 1875-76

District, Chingleput, Taluk, Conjeerem

WORK—Extending and Improving the Surplus Calingulah in the Choudrykal supply-channel of the Chembrumbaukum Tank

Quantities	Description of Charges	Rate	Per	Amount	Total
		RS A P		RS A P	
109	Cubic yards removing old masonry	0 6 0	C yd	40 14 0	
28	Granite dam stones, removing	0 3 0	each	5 4 0	
971	Cubic yards earthwork, excavation and filling	0 1 6	C yd	91 0 6	
971	" " tamping	0 0 3	"	15 2 9	
123	" " concrete	3 4 0	"	399 12 0	
289	" " brick in chunam	5 4 0	"	1,517 4 0	
177	" " dressed laterite in chunam	5 6 0	"	951 6 0	
54	" " new rough laterite in chunam	2 14 0	"	155 4 0	
71	" " construction of old do	2 6 0	"	17 13 0	
253	" " new rough stone apron	1 3 0	"	300 7 0	
100	" " removing and reconstructing old rough stone apron	0 8 0	"	37 8 0	
47½	Squares pointing	1 8 0	Sqrs	71 4 0	
12	Cubic yards new rough stone revetment	1 6 0	C yd	16 8 0	
15	" " old do	0 6 0	"	5 10 0	
	Add amount spent in preparing mortar, including value of lime and Soorki now unserviceable			23 10 0	
	Baling			50 0 0	
	Sundries and superintendence at about 5 per cent			201 4 9	
	Total.				3,900

No 141 ORDER THERON, 8th September 1875, No 2,553

IRRIGATION, No 13

Account

THE Honorable the Governor in Council approves of the lengthening of the surplus weir of the Choudrykal supply-channel of the Chembrumbaukum Tank,

and the estimate of Rupees 3,900 will be carried out under Capital, and will be an item of the revised estimate of the Chembrumbaukum Tank Project.

2 The attention of the Superintending Engineer will be specially given to the remarks in the foregoing note on the foundations of a portion of the extension, which from the specification would appear to have been laid on made soil. This weir should be completed at once

(True Extract)

Major-General, R E,
Secretary to Government.

To the Superintending Engineer, Chingleput
" Chief Engineer for Irrigation
" Controller of Public Works Accounts
Exd S T Austin
Spare Copies

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220616. Note by the Chief Engineer for Irrigation.

In para 2 of the inspection notes dated 17th April 1875 printed in Pro. Madras Government of the 15th July last, reference was made

to the Choudrykal a feeder of the Chembrumbaukum Tank by which the surplus from the Stipermatur Tank is diverted into the former. It was mentioned that the channel bank had breached extensively at the surplus weir and that the extension of this was deemed by the Superintending Engineer to be necessary to prevent future accidents.

2. Some correspondence on the subject from S. C. 22634 21st May afterwards took place, and Colonel 22634 26th May. Noberly now reports that on a consideration of the circumstances and of the surplus to be disposed of, it will be advisable to lengthen the existing weir from 91½ to 190 feet. The evidence supports this conclusion, though probably the full velocity in the

channel is not effective in an orientation
of discharge over weir, and it is recom-
mended that the estimate amounting
to Rs 3900 be sanctioned under Capital
Chamberbhand Rum Sank project and
be entered as an item of the revised
estimate for that project now under
preparation.

3. The commencement of the work, as
reported, in anticipation of the sanction
of the estimate was necessary, seeing that
the surplus weir must be ready to
discharge water by October at latest.

4. The contraction of the space between
the rear wings is not a desirable arrange-
ment. It would have been better to
have struck the curve from the line
of the rear retaining wall and to have
made this wall 10 to 12 feet longer than
the body wall. The rear returns are
somewhat short. In the specification
it is mentioned that a part of the
extension

extension will be set out made earth filled
in at the breach: this is altogether opposed
to approved practice and can hardly
fail to lead to settlements and cracks.
If not too late, something is not
liable to material compression should
be substituted for earth. Concrete is the
best material, but good clean gravel
rammed down perfectly hard in very
thin layers would answer, and might
be used if the hole be large, while an-
other alternative would be the car-
rying of the walls at this part on
piers arches and inverts.

5. Apparently the old right wing is
to be removed and rebuilt, because pro-
bably it is not capable of being
raised, but the specification is silent
on the subject.

6. The maximum water level is in-
tended to be 3 feet above the crest
of

of the weir, which latter is below at 95.00 above mean sea level. The wing walls will give a margin of $3\frac{1}{4}$ feet above M.W.L. and the channel banks are shown as still higher.

Volunteers, Leaftall R. G.
Chief Engineer for Irrigation

Botanarum
27th August 1876

To
 The Secretary of Government
 S. H. C.

No 2553

Pres. of the Madras Govt. ^{Read}
Under date the 8th Sept 1895
Read the following.

From, The Chief Engineer
for Drigation } (N. E. Co. 777) 27th Dec 1875

The Honorable the
Governor in Council
approved of the lengthen-
-ing of the surplus weir
of the Choudrykal sup-
-ply Channel of the
Chembumbantam Tank,
and the estimate of Rs. 3900
will be carried out
under Capital, and will
be an item of the revised
estimate of the Chembum-
-bantam Tank project.

2. The attention of the
 Superintender will be
 specially given to the
 remarks in the foregoing
 note on the foundations
 of a portion of the exten-
 -sion which from the
 specifications would ap-
 -pear to have been laid
 on made soil. This work
 should be completed at
 once.

by 30/8
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 k Project. The
 - to be completed
 once.

23/11

Superintendent
 Changes for Long
 Cont'd blocks

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 6 inch
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N. 140-141

22/11

SC 23-9-75

5-8/5

Govt. of Madras
PUBLIC WORKS.

To

*Muzhappur
Chingleput.*

Dr. d

From

Encl

Recd.

G. O. 8 Sept 1955 No 7553

No. 140-41

Lengthening of the surplus
weir of the Chowdrukal
Supply Channel of the
Chemburumburam Tank

Approving of the
directing that the Retention
of Rs: 3,900. be carried out
under Capital & be
considered an item
the revised estimate

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NT