(1) Number of pages 26

(2) Date of repair

(3) Initials of the Referencer

14/9

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. ~~B.P. No.~~	1090	Press. ~~Mis.~~
Dated	19-4-1887	~~198~~ .

Not to be folded or roughly handled

Archives I--10,006 I -80.

GP

1090
1

19th April 1887, No. 1090 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From Major S. C. CLARKE, R.E., Officiating Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated Bezváda, 7th July 1886, No. 122 B.C.

I have the honor to submit the accompanying estimates (Rs. 22,275), for approval and early sanction, providing for the training of the river Adyar from the vicinity of the Government Saidápet farm up to the Elphinstone bridge.

2. The original provision entered in a lump sum was only Rs. 4,000—*vide* item 68 A, under sections I and II of the Southern canal, noted in appendix A of G.O., No. 841 W., of the 14th March 1883.

3. I regret my predecessor in office did not submit this project, being fully acquainted with the locality and its requirements, but not having done so, I am compelled to submit it without commenting on the Executive Engineer's proposals, which I learn are virtually those drawn up by Major R. R. E. Drake-Brockman, R.E.

4. The Executive Engineer reports that a saving of Rs. 18,280 will be effected in connection with the flood banks and canal diversion near the Pálár river, so that it is presumed that there will be no difficulty in meeting the excess, viz., Rs. 18,275, as shown by the marginal entries.

	RS.
Amount of revised estimate now submitted	22,275
Lump sum originally provided for in the completion estimate	4,000
Excess ...	18,275

No. II/35 B.C.

MEMORANDUM.

With reference to letter, No. 122 B.C., dated 7th July 1886, from the Superintending Engineer, II Circle, the undersigned has the honor to return the estimate for training the Adyar river with the following remarks.

2. The estimates for the improvement of the Buckingham canal allowed for training the Adyar in the neighbourhood of the canal crossing, but it does not seem equitable to charge the canal with the whole cost of training the river between the Marmalong and Elphinstone bridges, and it is considered that a large portion of the cost should be chargeable to Miscellaneous Public Improvements, Government having decided that the conservancy of the Adyar should be carried out by the Public Works Department. The estimate should therefore include the work necessary for training the river below the Elphinstone bridge to the sea, and should be altered accordingly ; and, when sanctioned, the question of apportionment of charge will be laid before Government.

3. The estimate, as submitted, is not approved. No cross sections of the river have been submitted and the necessity for the high training banks has not been established. It should be shown to what extent the water spreads on either side in high floods, and whether damage is caused by water backing up the drainages at present.

4. The single black line on the north bank on the survey is not explained.

5. The general ultimate alignment of the river bed, as shown in the survey, is approved; but the construction of groynes of 150 feet in length is not approved, and it is believed they will not be efficient in diverting the current on to the opposite side of the river. Neither is the direction of the groynes, as shown on the survey, approved; those immediately above the bridge should, it is considered, be more in the direction of those sketched in pencil. In the first instance the groynes should be put down not higher than 50 feet and their upper surface should slope down towards the river bed; if these groynes succeed in catching sand or silt this should be planted up by mangrove or grass which will grow in salt water, and the groynes extended. In the meantime all vegetation and trees with their roots should be removed from the islands or sandbanks which it is desired to remove, and the margins should be scarped, so that they may readily wash away during floods; this is, in fact, the first thing to be done; and if the estimate is not sanctioned before the north-east monsoons are expected, it would be well to put on a few coolies to work under the Lock Superintendent to remove trees and grass from the islands and margins in the neighbourhood of the lock this year.

6. The estimate should be re-submitted as above directed complete from the Mylapur tank surplus channel to the sea; meanwhile the Superintending Engineer, V Circle, has been directed to remove casuarina trees and vegetation from the islands below the bridge and has been authorized to undertake, on behalf of Mr. Morgan, some groynes, which are considered necessary, to protect his house, "Somerford," from damage.

OOTACAMUND,
26th July 1886.
(Signed) J. O. HASTED, Col., R.E.,
Chief Engineer, P.W.D.

From G. D. WYBROW, Esq., Superintendent of Works, in charge II Circle, to the Chief Engineer for Irrigation, dated Polraz Canal, 28th January 1887, No. 346 B.C.

With reference to your memorandum, No. II/35 B.C., of the 26th July 1886, I have the honor to submit, herewith, for your approval and sanction of Government, survey, sections, and estimate, amounting to Rs. 21,496, for training the Adyar river.

2. The estimate has been recast in accordance with the instructions given in your memorandum.

3. The classification is left out in the estimate for insertion in your office, after the estimate is sanctioned under a final head.

No. 16 E.W.

Forwarded to the Chief Engineer, Public Works Department, with a recommendation that the estimate, amounting to Rs. 21,496, for training the Adyar river, may be sanctioned. In the completion estimates of the Buckingham canal a sum of Rs. 4,000 was provided for training the Adyar in the neighbourhood of the canal crossing, and as this amount in the estimates now submitted represents the cost of the work to be done in the interests of the canal, it is suggested that the canal estimates be debited with this sum, the balance of the estimate, viz., Rs. 17,496, being charged to Miscellaneous Public Improvements.

DOWLAISHWERAM,
10th March 1887.
(Signed) J. PENNYCUICK, Lieut.-Col., R.E.,
Offg. Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

From the Examiner, Public Works Accounts, dated Madras, 31st March 1887, No: 859.

1090/2

Note by the Chief Engineer, Public Works Department.

The general design of the training works proposed is approved, but in carrying out the work it will probably be necessary to make several deviations.

Care should be taken to commence the work from the upper part of the river and work downwards; the flood embankments could, however, be constructed at any time when funds are available.

Something more might be done to the north margin immediately below the Elphinstone bridge; hurdle groynes or bushes fairly staked down would help to silt up the bay, and this might be done without waiting for the improvement of the river above the bridge.

(Signed) J. O. HASTED, Col., R.E.,
Chief Engineer, P.W.D.

14th April 1887.

ORDER—dated 19th April 1887, No. 1090 W., Public Works.

The estimate, amounting to Rs. 21,496, for training the Adyar river, is sanctioned, and the cost will be charged as shown below:—

	RS.
Provincial, Miscellaneous Public Improvements	17,496
Provincial Irrigation— Buckingham canal	4,000
Total ...	21,496

2. This sanction has been registered as Provincial, No. 4 W. of 1887-88, and classified as Miscellaneous Public Improvements, Original Works.

(True Extract.)

Captain, R.E.
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, II Circle, with eleven enclosures.
" Superintending Engineer, V Circle.
" Examiner, Public Works Accounts, with two duplicate abstract estimates.
" Chief Engineer for Irrigation.

Exd. A. Aube.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of [1887] Madras.
PUBLIC WORKS.

Dated April, 19th.

Recd.

G.O., 19th April 1887, No. 1090

APRIL.

Adyar River

Estimate of Rs. 21,496 for training th
—, sanctioned.

No 122 B.C.

Superintending Engineer's Office
2d Circle Bezvada 7th July 188

From
The Superintending Engineer
2d Circle

To
The Chief Engineer
For Irrigation

1090/3

Enclos 8
1 Tracing
1 Site plan *
1 Abstract Este for Compensations in duplicate
1 D & Ms. Este for Training banks in duplicate
2 Abstract Este for Inlet
1 Classified Abstract
1 Ex Engrs Report

* sent by Book post.

Sir

I have the honor to submit the accompanying Estimates (Rs 22,275) for approval and early sanction, providing for the Training of the River Adyar from the vicinity of the Government Sydapett Farm up to the Elphinstone Bridge.

2. The original provision entered in a lump sum, was only Rs 4,000, vide, Item 68 A under Sections I & II of the Southern Canal noted in Appendix A of G.O. No 841 W of the 14th March 1883.

3 I regret my predecessor in office did not submit this Project, being fully acquainted with the locality and its requirements, but not having done so, I am compelled to submit it without commenting on the Executive Engineer's proposals, which I learn are virtually those drawn up by Major R. R. E. Drake-Brockman R.E.

4 The Executive Engineer reports, that a saving of Rs 18,280 will be effected in connection

with the Flood Banks and Canal Diversion near the Palar River, so that it is presumed that there will be no difficulty in meeting the excess, viz, Rs 18,275 as shown by the marginal entries.

I have the honor to be
Sir
Your Most Obt. Servt.

Major R.E.
Offg. Superintending Engineer 2d Circle

x Amount of Revised Estimate now submitted Rs 22,275
Lump sum originally provided for in the Completion Estimate } 4,000
Excess 18,275

Comp [illegible]

CHIEF ENGINEER
11 JLY
1886
FOR IRRIGATION

From,

The Supdg. Engineer
2nd Circle,

R 44 B C

To

The Chief Engineer,
For Irrigation,
Madras.

Dated 7th July 1886.

No. 122 B.C.

Enclosures: 8

River Adayar – training of the " from the vicinity of the Govt. Sydapett Farm up to the Elphinstone Bridge – Forwards for sanction Estimates of Rs. 22,275 for the

---

No $\frac{\text{II}}{35\,\text{BC}}$

1690 / 8

R 44 BC

Encs: 8

Memo.

With reference to letter No. 122 B.C. dated 7 July 86 from the S.E. II. the undersigned has the honor to return the Estimate for training the Adyar River with the following remarks.

2. The Estimates prepared in pursuance of the B.C. allowed for training the Adyar in the neighbourhood of the Canal crossing, but it does not seem ~~desirable~~ equitable to charge the Canal with the whole cost of training the river between the Marmalong & Elphinstone Bridges, and it is considered that a ~~considerable~~ large portion of the cost should be chargeable to M. P. Improvements, Govt. having decided that the Embankment of the Adyar should be carried out by the P.W.D. The Estimate should therefore include the work necessary for training the river below the Elphinstone Bridge the other side, and should be altered revised accordingly, and, when sanctioned the question of apportionment of charge will be laid before Govt.

3. The Estimate as submitted is not approved. No cross sections of the river have been submitted & the necessity for the high training bank has not been established ~~shewn~~. This should be shewn & what extent the water spreads on either side in high floods & whether damage is caused ~~[illegible]~~ by water backing up the drainages where at present.

4. The high black line outer to bank on the survey is not explained.

5. The general alternate alignment of the river bank as shewn on the survey is approved, but the construction of groynes of 150 feet in length is not approved & it is believed they will not be efficacious in diverting the current on the opposite side of the river. Neither is the direction of the groynes as shewn on the survey approved, those immediately above the bridge should, it is considered be more in the direction of those sketched in pencil. In the first instance the groynes should be kept down not longer than 50 feet & their upper surface should slope down towards the river bed, if these groynes succeed in catching sand or silt this should be planted up by mangroves or grass which will grow in salt water; when the groynes extend deeply. In the mean time all vegetation & trees with their roots should be removed from the islands or sand banks which it is desired to remove, and the margins should be scarped, so that they may readily wash away during floods; this is in fact the first thing to be done & if the Estimate is not sanctioned before the N. E. monsoon are expected, it would be well to put on a few coolies to work under the Sub. Dept. to remove trees & grass from the islands & margins in the neighbourhood of the work, this year.

6. The Estimate should be resubmitted as above directed complete from the Mylapore Sub. Engineer's & the Sec demand, meanwhile the S. E. has been directed to remove extensive trees & vegetation from the islands below the bridge & has been authorized to undertake on behalf of Mr. Morgan [illegible]

[illegible] which are [illegible] [illegible] protect his house, Somerford [illegible] damage.

Ootacamund

[illegible]

26/7/86.

No. 2284/87
1870/87

No. 346 B.C.

Superintending Engineer's Office
2d Circle Camp Potraz Canal
28th January 1887

1090

From
G. D. Wybrow Esquire
Superintendent of Works
In charge 2d Circle

To
The Chief Engineer
For Irrigation

Enclos 9
1 Survey tracing
1 Longl. Section do
1 Tracing of Cross Sections
1 [illegible] [illegible] Report
1 Detail & [illegible] Estimate in duplicate
2 Abstract [illegible] for [illegible]
1 - do in duplicate for Land Compensation
1 Classified Abstract

Sir

With reference to your Memorandum No $\frac{II}{35 B.C.}$ of the 26th July 1886, I have the honor to submit herewith for your approval, and sanction of Government, Survey, Sections, and Estimate, amounting to Rs. 21,496 for training Adyar River.

2. The Estimate has been recast in accordance with the instructions given in your Memo.

3. The Classification is left out in the Estimate for insertion in your Office, after the Estimate is sanctioned under a final Head.

I have the honor to be
Sir
Your Most Obdt Servant
G. D. Wybrow
Superintendent of Works In ch.
2d Circle

Comp [illegible]

P.7.B.C

From

The Supg. Engineer
2d Circle

To The Chief Engineer
for Irrigation
Madras

Dated 28th January 1887

Encl 9

No 346 B.C

A.S.
P.W. 2200
2670/87

Adyar River training

Forwards Plans & Estimates &c for — amounting to Rs 21496 — for approval & sanction of Govt.

Reports & returns with this office memo. [illegible]

7/4/87

1090/d

Letter from the Supg. Engineer, Second Circle. No 122. B.C. dated 7th July 1886.

Encs. 12

1. His letter No 122 B.C/86
1 — do — No 346 B.C/87 with 9 enclosures
1. Memo of S.E. No 35 B.C/86

Memo to — do — No 35 B.C d/ 26th July 1886

Letter from — do — No 346. B.C. d/ 28th Jany 87

P.7

No 16 E.W.

Forwarded to the Chief Engineer P.W.D. with a recommendation that the estimate amounting to Rupees 21496 for training the Adyar river may be sanctioned. In the Completion estimates of the Buckingham Canal, a sum of Rs 4000 was provided for training the Adyar in the neighbourhood of the Canal crossing, and as this amount in the estimates now submitted represents the Cost of the work to be done in the interests of the Canal, it is suggested that the Canal estimates be debited with this sum, the balance of the estimate viz Rs 17,496 charged to Miscellaneous Public Improvements.

Camp
Dowlaishweram
10th March 87
Madras office
17th March 1887

To

The Chief Engineer
P.W.D.

Lt.Col. R.E.
Offg. Chief Engineer for
Irrigation

[C. No. 8.]

1080/10

GOVT; OF MADRAS. 1887. P. W. DEPT.

EXAMINER, P. W. ACCOUNTS.

Madras, 31st March 1887.

OFFICE NOTE No. 859

To

W.

Encs - 17

Keep-with Genl. No.

188 .

Your O. N. No. 1138 C. dated 24th.
March 1887.

The Estimate for training the Adyar River may be sanctioned for the full sum of Rs. 21,496, and the cost ordered to be charged in the manner suggested by the Chief Engineer for Irrigation in his endorsement No. 16 E. W. dated 17th. March 1887, viz, Rs. 4,000 to the Buckingham Canal Estimates and Rs. 17,496 to Miscellaneous Public Improvements.

2. There need not be any question of contribution in this case, as both works (or the entire work) are chargeable to Provincial Funds.

C.

31/3

G.O. 2262 W d/9-9-86
498 D d/6-8-86
2644 C d/2-8-86
2605 C d/27-7-86
2554 C d/21-7-86
147 D d/17-5-86
68 D d/29-4-86
907 C d/5-3-86
1995-96 C d/31-5-86
155 D d/20-5-86
1362-63 C d/3-4-86
907 C d/5-3-86
841 W d/14-3-83
1398 D d/22-5-82
230 C d/27-1-82
1984 D d/24-8-81
189 W d/21-1-84
2928 W d/1-10-83
1589 W d/22-6-82
3. No 275 W d/31-1-82
1624 C d/7-9-82
574 D d/8-3-81
516 C d/8-3-81
632 C d/24-8-82
2208 W d/9-8-83
696 W d/23-2-83
34 W d/6-1-83
2673 W d/16-10-82
725 C d/13-9-82
1961 W d/3-8-82
1321 C d/3-7-82
635 C d/3-3-82

P.W.C. No 2670

Rg 4-4-87

En. 16
(44 plans)

Contr 16

R No 750
28/3/87

No 1138 C of 24th March/87

To G

For favour of remarks, with respect to proposed incidence of cost.

It is presumed the full estimate should be sanctioned under "Provincial Miscellaneous Public Improvements," and the sum of Rs 4000 which it is proposed to debit to the Buckingham Canal taken as a contribution

22.3.87

22/3/87

E. I. Form No. 3.

P.W.C. No. ~~2208~~ 2/5 ~~5~~

26.7.87

Former Cases.

No. dated 188 .
" " 188 .
" " 188 .

Later Cases.

No. dated 188 .
" " 188 .
" " 188 .

Printed in P.M.G., No. dated

Reminders received.

No. 1, dated 188 .
" 2, " 188 .
" 3, " 188 .
" 4, " 188 .
" 5, " 188 .

Keep-withs.

1887.

From

The Chief Engineer for Irrigation,

To

The Chief Engineer P.W.D.

1395 C 3786

No. 16 Eu.
Dated 17. 3. 87
Despatched do
Received 18.3.87

Enclosures. 12/16 4 (+4 plans)

Subject.

Recommending with remarks that the estimate amounting to Rs 21496 for training the Adyar River may be sanctioned

---

1090/11

Note by the Chief Engr. P.W.D.

The general design of the training works proposed is approved, but in carrying out the work it will probably be necessary to make several deviations.

Care should be taken to commence the work from the [illegible] upper part of the river & work downwards. The flood embankments could however be constructed at any time when funds are available.

Something more might be done [illegible] the mouth immediately below the Elphinstone bridge; [illegible] groynes or [illegible] fairly stocked down [illegible] helps [illegible] up the way, and this might be done without waiting for the improvement of the river above the bridge.

[illegible] 10/4/87

No. 1090 W

1090/12

Public Works Department.

OF THE MADRAS GOVERNMENT.

Under date the 19th April 1887

Read the following

7-7-86
26-7-86
8-1-87

Irrgn: W.E. No. 16 E.W. d/ 17th March/87

Accts .. .. 859 d/ 31st March/87

D .. .. — 14 Apr 1887

The estimate amounting to Rs 21,496 for training the Adyar river is sanctioned, & the cost will be charged as shewn below:-

Provl: Mis. Pub. Impts: Rs 17,496
Provl: Irrgn:
Buckingham Canal " 4000
Total, Rs 21,496

2. This sanction has been registered as Provl: No. 4 W of 1887-88 & classified as Mis: Public Impts:, Origl: Works.

W.W.B.
11. 4. 87.

..ate D
..timates
..:V
..fferences
..WC to

3664/87

14/4/87

E. I. Form No. 2.

FORMER CASES.

No. dated 188 .
" " 188 .
" " 188 .

LATER CASES.

No. dated 188 .
" " 188 .
" " 188 .

Printed in P.M.G., No. dated

REMINDERS RECEIVED.

No. 1, dated 188 .
" 2, " 188 .
" 3, " 188 .
" 4, " 188 .
" 5, " 188 .

KEEP-WITHS.

No. 1090 W

1090/12

PUBLIC WORKS DEPARTMENT.

A/Circ

PROCEEDINGS OF THE MADRAS GOVERNMENT,

UNDER date the 19th April 1887

READ the following

From S. E. II Circle No. 122 Bc. d/ 27-7-86
Memo to " " 35 Bc. d/ 26-7-86
" " 3264 [illegible] d/ 8-1-87

~~From the Chief Engr: for Irrgn: W.E. No. 16. E.W. d/ 17th March/87~~
" the Examiner P.W. accts .. .. 859 d/ 31st March/87
Note by the Chief Engr: P.W.D. .. .. — 14 Apr 1887

The estimate amounting to Rs 21,496 for training the Adyar river is sanctioned, & the cost will be charged as shewn below:-

Provl: Mis. Pub. Impts: Rs:	17,496
Provl: Irrgn:	
Buckingham Canal "	4000
Total, Rs	21,496

2. This sanction has been registered as Provl: No. 4 W of 1887-88 & classified as Mis: Public Impts:, Origl: Works.

Mor
11. 4. 87.

28/4

S. E. II C with 11 enclo:
S. E. V circle
Ex: P.W. accts: with duplicate abst: estimates
Chief Engr: for Irrgn:
[illegible] these [illegible] with reference [illegible] 29 - [illegible]
14/4/87

3/5/87

14/4/87

2208.

Govt. of (1887) Madras

PUBLIC WORKS.

Dated Despatched No 20/4/87

Recd. Encl.

G.O. 19 April 1887, No. 1090 W

Adyar river

Estimate of Rs 2,496 for training the – sanctioned.

CW 19/4