Public Works (1899) Depart

G.O., No. 1065 I

DATED 14 Decr 1899.

[Despatch Abstract.]

Expenditure:

Authorising the Exr P.W. Accts, to pass the excess of Rs 12,148 incurred in excess over the estimate for improving the Kampli and Bellagodel channels from the Tungabadra in the Bellary Dt.

F.E.J.

Indexed. 14/12/99

[P. W. 2. 500—27-10-99.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Public Work
Irrigation D

W.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Revised draft submitted for approval with reference to H's note d/ 11.10.99

Under date the

Read the following

Dr

From the Superintending Engineer, 3rd Circle, No. 1385, dated 7th April 1899.

Endorsement by the Examiner P.W. Accounts, No. 1123 B/A, dated 13th April 1899.

Note by the Chief Engineer for Irrigation. } No. 218 I, dated 6 ~~May~~ Nov. 1899.

To W for signature of countersign initials.

Issue

W.H.

28.11.99

1

The Superintending Engineer, 3rd Circle, applies for sanction to the excess of Rs 12,148 incurred over the estimate of Rs 31,700 for improving the Kampli and Bellagodel channels from the Tungabudra in the Bellary District sanctioned in G.O. No. 89 I, dated 31st January 1893. The excess is chiefly on the following items:—

	Rs
Cast iron pipe irrigation aqueducts	1189
Extension of Kampli channel	9868
Irrigation stone ware pipes, Bellagodel channel	1762

There are other small excesses and savings on a good many items, the net excess being as above stated.

The excess on the first item

is chiefly due to the cost of pipes supplied by the P.W.Workshops exceeding the sanctioned rate, ~~and~~ to no provision having been made for demolishing existing works and to 9" pipes having been used in some cases to irrigate larger areas instead of 6" pipes estimated for. The excess on the third item is owing to foundations having to be made deeper than estimated and to retaining walls being found necessary to prevent wilful destruction of the pipes. The second item is the extension of Kampli channel 3½ miles with a view to irrigating about 100 acres of land. This was estimated at Rs 3,500 and cost Rs 13,368. It was discovered when the work was put in hand probably 6 years ago that the sanctioned estimate would be largely exceeded, as it was found to have been prepared on insufficient information as to the nature of the soil, number of masonry works required, &c. The earthwork alone has cost Rs 6,900 or three times the sanctioned amount and Rs 3,036 had to be paid for compensation for which there was no provision in the estimate. With regard to the enquiry as to the officers responsible for the failure to submit a revised estimate at the proper time, it is observed that it was known immediately the Kampli channel extension — the work on which the chief part of the excess occurred — was put in hand that the estimate would be greatly exceeded and, strictly speaking, it was the duty of Mr C.W. Wood, who was then in charge of the Division, to have stopped the work and to have had the estimate revised. It would however have been very difficult to make any reliable estimate. The excavation was reported complete in December 1893 but the accounts were probably not settled until later and Mr Wood left in January 1894, being succeeded by an officer, who has since left the Department, who held charge for six months, and he was followed by officers who held charge for only four and three months. The only Executive Engineer who had charge for any long time was Mr. J.F.Somers-Eve whose incumbency lasted, with an intermission of three months, from December 1894 to February 1897, and he must be considered chiefly responsible for the failure to ~~prepare~~ Submit the revised estimate though his predecessors may have been to some extent to blame also.

The officer who succeeded Mr Somers-Eve Sent in to the Supd. Eng. shortly after he ~~proposed to send us, an estimate~~ took charge an estimate which Mr. Somers Eve appears to have ordered to be prepared ~~shortly after he took charge~~, but it was then unnecessary as the work was nearly completed.

No: 1065 14-12-99

ORDER thereon.

The Examiner of Public Works Accounts is authorized to pass the excess of Rs 12,148 incurred on the work referred to.

2. This sanction is registered as No. 94 I of 1899-1900.

3. The Government notes with displeasure the failure to submit a revised estimate for the work above referred to when it was known that the sanctioned estimate would be largely exceeded. Several officers were to some extent reponsible for this, but it is considered that Mr J.F.Somers-Eve was most to blame in the matter.

W.H.

6-11-99

R.E.H.
27.11.99

18.11.99

To
The Chief Engineer, P.W.D. ✓
,, Chief Engineer for Irrign: ✓
,, Supg: Engineer, III Circle ✓
,, Examiner P.W.Accounts. ✓
J.F.Somers-Eve Esc. ✓

Despd
14/12/99

21.11.99

Public Works (1899) Department.

CURRENT No. 9776

Order

From
The Chief Engineer for Irrign:

No. 218 I.

Dated 6-11-99
Received & **Registered** 2-12-99
Enclosures 3
Spare copies.

SUBJECT.

Kampli and Bellagodal channels — Bellary District— Excess of Rs 12,148 incurred over the original estimate for improving the — Note submitting remarks on the —

was certainly so.

G.O.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

H.E

Note

The following statement is submitted with reference to H.E's remarks on paper flagged K –

Executive Engineers –	Period of incumbency		Expenditure incurred Rs	a.	p.
Expenditure prior to Jan/93			643	7	0
C. J. Peters	Jan/93 –	March/93.	584	8	9
C. W. Woods	April/93 –	Jan/94.	7,588	0	10
J. H. Medlicott	Jan/94 –	June/94.	11,568	11	1
C. Mildred	June/94 –	Oct/94.	4,225	7	3
Capt. Ellis	Oct/94 –	Dec/94.	522	4	3
J. F. Somers-Eve	Dec/94 –	May/95.	2,659	0	6
C. Mildred	May/95 –	July/95.	1,192	1	5
J. F. Somers-Eve	July/95.	Feb/97.	3,104	8	3
A. E. Clark	March/97 –	Oct/98.	11,759	14	10
		Total	43,848	0	2

In Sept/96, the expenditure on the work amounted to Rs 31841.3.1 or Rs 141.3.1 in excess of the sanctioned Estimate. In Augt/97 the Ex. Engr was directed by the S.E. to submit a completion

It is impossible for me, with the information before me, to decide who of the above mentioned Officers is responsible for not sending in a revised Estimate.

Can the C.E. fix the blame?

A.E.H.

7.10.99

Recirculate to W.H.

Mr. Mildred and Capt Ellis were but a short time in charge and Mr Clark proposed to send a revised Est. shortly after he took charge – It does not appear when the necessity for revising the est. was discovered. Possibly it became Mr. Medlicott's duty to send in the Est. but there is some doubt whether any officer was responsible before Mr Somers-Eve and he was certainly so.

W. Hughes 9.10.99

A note to this effect shd. be put on record. A.E.H.

11.10.99

port, the expenditure
om Oct/96 to date
completion of work
being Rs 12,006.13-1
against an excess of
Rs 12,148 for which
sanction is asked for.

14/9/99

18.5.99

13/9/99

H.E. 18.9.99

H.E.

Recirculate

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Excess outlay on improvements to the Kamply & Bellagodal channels. Bellary Dist. –

READ the following

From the Supg. Engineer 3rd Circle. No 1385. I. d/ 7th April 1899

Endorsement by the Ex of P.W.A No 1123.B/A dated 13.4.99

Note by the Chief Engineer for Irrigation – - - - - - No I dated May 1899.

Flag P.

Issue

13.10.99 W.H.

I

W.S.
13.10.99

× Flag C.

~~Issue~~

The Superintending Engineer 3rd Circle, applies for sanction to the Excess of Rs 12,148 incurred over the estimate of Rs 31,700 for improving the Kampli and Bellagodel channels from the Tungabhadra in the Bellary District sanctioned in G.O. No 89. I. dated 31st Jany 1893. The Excess is chiefly on the following items

	Rs
Cast iron pipe irrigation aqueducts - - - - - - -	1189
Extension of Kampli chl –	9868
Irrigation stone ware pipes, Bellagodel Chl.	1702

There are other small Excesses and savings on a good many items, the net Excess being as above stated

The Excess on the first item is chiefly due to the cos

of

port ipes supplied by the Govt. workshops exceeding of con sanctioned rate, to provision having been made for demolishing existing works and to 9" pipes having been used in some cases to irrigate larger areas instead of 6" pipes estimated for.

The Excess on the third item is owing to foundations having to be made deeper than estimated and to retaining walls being found necessary to prevent wilful destruction of the pipes.

The second item is the Extension of Kampli channel 3½ miles with a view to irrigating about 100 acres of land. This was estimated at Rs 3500 and cost Rs 13,368. It was discovered when the work was put in hand probably 6 years ago that the sanctioned estimate would be largely exceeded as it was found to have been prepared on insufficient information as to the nature of the soil, number of masonry works required &c. The Earthwork alone has cost Rs 6900 or three times the sanctioned amount and Rs 3036 had to be paid

This is unsatisfactory: Please name the officer who made the Estimate.

A.S.H.
22.5.99

The officer who signed the est. was Mr C J Peter Exec. Engr. who has since retired

23/5
99

25.5.99. W.H.

Seen
A.S.H
26.5.99

What is the name of this Ex: Engineer?

A.S.H
26.5.99

intention of submitting

been repeated

Since Mr Peters' time (1893) there have been five Executive Engineers

Messrs C. W. Wood
" J H Medlicott
" C. Mildred
" Capt Ellis
" F. J Somers Eve ×
" H.E. Clerk.

It is not clear when and by whom the revised est. should have been submitted

A.S.H
22.5.99

29.5.99 WH

The C.E. is requested to make out a statement showing exactly the period during which each of the above officers held charge, and how much money was spent on this work by each officer. We may then be able to apportion the blame. A.S.H. 4.6.99

paid for compensation for which there was no provision in the estimate. It was the Executive Engineer's duty to prepare a revised estimate as soon as he discovered there would be a large Excess, but no question of a revised estimate seems to have arisen until August 1897 when the Supg. Engineer ruled (the Code rules allow this) that as the work was nearly completed at the time there was no need for an estimate. It was completed in December 1898.

3/5/99

Order thereon

The Examiner of Public Works Accounts is authorized to pass the Excess of Rs 12,148 incurred on the work referred to.

2. This sanction is registered as 18 of 1899-1900.

3.5.99 WH

To
The Chief Engineer for Irrign
" Supg. Engineer, 3rd Circle,
" Exr of P.W. Accts.

a/2

Public Works (1899) Department.

EXAMINED.
P. W. ACCOUNTS
10 APR. 1899
No.

CURRENT No. 38 C

From The Superintg. Engineer
3rd Circle
Bellary.

thro' the Examr. P.W. Accts

No. 1385 I.

Order

AB HB, 1/4

Checked & found Correct.

10/4/99

Dated 7 - 4 - 99

Received } 14 — 4 - 99
Registered }

Enclosures 2 ✓

Spare copies

SUBJECT.

Kambly & Bellagodal
Channel Improvements

Requesting sanction
of Government for the
outlay incurred in exce
of the sanctioned estim

F.E.J.

14/4/99 ✓

Recd 15/4/99

E. I. Form No. 1 (a)—500—21-4-98.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.
R121	12-1-99
R134	23-6-99
R428	25-7-99
R478	16-10-99

No. 1385 I

intending Engineer's Office,
3RD CIRCLE.
Bellary 7th April 1899.

EXAMIN
P. W. ACCOU
10 APR 1899

FROM

Lieut Col. W. L. C. Baddeley R.E.
SUPERINTENDING ENGINEER,
3RD CIRCLE,
BELLARY.

To

THE Chief Engineer for Irrigation
Thro' The Examiner, P.W. Accounts
Madras.

Sir,

1 Enclosures.

1 Completion Report with an explanation for the excess.

I have the honour to submit a Completion Report for the Kampli and Bellagodal channels improvements, and request that you will be good enough to obtain the sanction of Government for the outlay of Rs 12,148 incurred in excess of the Estimate of Rs 31,700. ✓

2. The Estimate for Rs 31,700 was sanctioned in G.O. No. 899 dated 31st ~~March~~ January 1893, but during the progress of the work, it was found that the Estimate was not prepared on sufficien information, and this combined with othe other causes (which are explained in detail in the report that accompanie the Completion Report) is the general reaso for the excess.

3. It was considered unnecessary to

send

12/4/99

P. W. D. FORM No. 45A.

Name of work— Kampli & Bellagodall Channels- Improvements
Fund— Provincial
Departmental head— Original works
Service head— 43. Minor works & Navigation
Main head of classification— I. & N. works for
Sub-head of classification— which neither Capital nor Rev: Accts are Kept
Arm of the service —
Reference to last schedule docket submitted — No. 35, for the month of December 1898.
Authority— G. O. No 89 I dated 31-1-93

Sub-heads of estimate.	As estimated.			As executed.			Differences.*			Reference to paras. overleaf explaining differences.
	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
1/ Repairs to Anicut			1490			647			843	
2/ Constg a head Sluice			3580			4075			495	
3/ Constg: 29 cast iron pipes irrigation aqueducts			2552			3741			1189	
4/ Proposed extension of Kampli Channel			3500			13,368			9868	
5/ Raising revetment to left inner slope of left bank of channel			550			207			343	
6/ Constructing bridge at 6/3 in lieu of old			370			469			99	
C. O.			Rs. 12042			Rs. 22507			Rs. -10465	

* Excesses to be entered in red ink; Savings in black ink.

Sub-heads of estimate.	As estimated.			As executed.			Differences.*			Reference to paras. overleaf explaining differences.
	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
B. F.			12042			22507			-10465	
7/ Constg: a drop weir to supply Bellagodall Chal: at 7/2.			390			381			9	
8/ Impg: sectional area & bed of Channel			370			nil			370	
9/ Raising left bank of Chal top width of bank 6' slope 1½ to 1.			360			124			236	
10/ Diverting the surplus Chal from Kampli Chal at 1/7 from entering the Bellagodall Chal			150			112			38	
11/ Preventing leakages of L. B. of Chal			264			307			43	
12/ Repairing bridge at 3/1 Bellagodall Channel			40			31			9	
			Rs. 13616			Rs. 23462			Rs. -9846	

* Excesses to be entered in red ink; Savings in black ink.

From

The Superintending Engineer,
3rd Circle,
Bellary.

To

The

Dated
Received } 189 .

Enclosures.

No.

Subject.

EXAMI[illegible]
P. W. ACCOU[illegible]
10 APR 1899
No.

P. W. D. Form No. 45A.

NOTES.

Reference to P. W. D. Code.

Chapter III, para. 80; and Chapter IX, paras. 38 to 43.

1. This form should be submitted to the Examiner with the accounts of the month in which the work is reported to be completed. It is only intended to be used for works, the outlay on which is recorded by sub-heads or items of work and which have exceeded the sanctioned estimate by more than 5 *per cent.*

2. When work has been executed for the Civil or Military department, the countersignature of the Civil or Military authority concerned should be obtained to the form of Certificate, (Form No. 45B. or 45D.), and the Certificate should be attached to the Completion report.

3. The entries in the Completion report must accord with the closing entries in the Register of Works, and the last Schedule docket submitted to the Examiner.

4. In the case of contribution works, proposals should be submitted as to the disposal of the unexpended balance, if any.

Names of Engineers and Subordinates by whom the work was supervised, giving the dates of their several incumbencies, *i.e.*, the dates of taking and making overcharge in connection therewith.

Names.	Period of incumbency.	
	From	To
Executive Engineers		
C. J. Peters Esqre.	Jany 93	March 93
C. W. Wood Esqre.	April 93	Jany. 94
J. H. Meddlicott Esqre.	Jany. 94	June 94
C. Mildred Esqre.	June 94	Octbr. 94
Captn. B. M. Ellis R. E.	Octr. 94	Decbr. 94

Explanation of Differences.

J. F. Somers Exe Esqre. Decbr 94 May 95
C. Mildred Esq May 95 July 95
J. F. Somers Exe Esq July 95 Febry 97
H. E. Clerk Esq March 97 to end

Sub Dn. Officer
Sub Condr. L. Donaghue, whole period Supervision

C[illegible]
FOR I[illegible]
14 APR. 1899
1/38C

Completion report of Original works and Special Repairs.

Division— Bellary

Name of work— Kampli & Bellagodal Channel Impts.

Amount of estimate—Rs. 31700

Expenditure " 43848

Difference " 12,148

Percentage of excess (if any)— 38

Date of commencement— January 1893

Date of completion— December 1898.

Record plan No.—

Forwarded to the Examiner, P. W. Accounts, Madras for verification, as this Office No. ____, dated ·3· 1899. thro' S. E. 3

*Documents accompanying.**

1 Comparative statement

H Clark
Executive Engineer,
Bellary Division.

Transmitted to the Superintending Engineer, ____ Circle, duly verified as this Office No. ____, dated ____ 189 .

Examiner, P. W. Accounts.

Transmitted to ____ for record as this Office No. ____, dated ____ 189 .

Superintending Engineer.

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* Here note "Completion certificate" granted by the Civil or Military authority concerned, report, specification, drawing and of detail quantities, when necessary.

C G P—No. 188 P W—25 10 94—8,000.

Sub-heads of estimate.	As estimated.			As executed.			Differences.*			Reference to paras. overleaf explaining differences.
	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
B. F.			13616			23462			-9846	
13/ Constg 37 Irrigation Aqueducts across Bellagodal channel			2220			2417			197	
14/ 58 Irrigation stone ware pipes Daltons for Bellagodal chl.			2320			4022			1702	
15/a Closing surplus sluice at 1/3 & making it water tight Kampli channel b Do - do. @ 1/4 - do c Do. - do. No. 3 @ 1/5 - do - do			680			708			28	
16/ Foot bridge at 1/5 & 7/2. Kampli chal.			370			356			14	
C. O. Total ...			Rs. 19206			Rs. 30965			Rs. -11759	

* Excesses to be entered in red ink; Savings in black ink.

Dated the ____________ 189

~~Executive Engineer.~~

[N.B.—When any considerable deviations from the original design have occurred, the report, specification, drawings and details of the measurement of the work actually done, in the same form as the estimates, should accompany the Completion report.]

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10 APR 1899

Sub-heads of estimate.	As estimated.			As executed.			Differences.*			Reference to paras. overleaf explaining differences.
	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.	
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
B. F.			19206			30965			-11759	
17/ Constg: surplus sluices at 1/8 & 3/8 a/ Do do 5/8 Kampli chl.			1180			1145			35	
18/ Surplus weir & sluice at 1/5 Bellagodall chl.			120			47			73	
19/ Foot bridges 5/1 & 5/8 Bellagodall chal.			350			378			28	
20/ 86 Stone ware pipes sluices Daltons –			10656			9965			691	
21/ Surplus sluice 6/6 in lieu of existing one			188			213			25	
22/ Enlarging the vents of 11. sluices.						125			125	
			Rs. 31700			Rs. 42838			Rs. - 11138	

* Excesses to be entered in red ink; Savings in black ink.

P. W. D. FORM No. 45A.

Sub-heads of estimate.	As estimated. Quantity.	As estimated. Rate.	As estimated. Amount.	As executed. Quantity.	As executed. Rate.	As executed. Amount.	Differences.* Quantity.	Differences.* Rate.	Differences.* Amount.	Reference to paras. overleaf explaining differences.
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
B.F.			31700			42838			-11138	
23 Petty Supervision						1010			1010	
64.4 / 98-99 Total ...			Rs. 31700			Rs. 43848			Rs. 12148	

Sanctioned in G.O. No 1085 I d/14.12.99 and registered as No 94 I of 1899-1900

Rev. Exc. 9778/44

* Excesses to be entered in red ink; Savings in black ink.

Ent 10-4-99

Dated the 16th March 1899.

Executive Engineer.

[*N.B.*—When any considerable deviations from the original design have occurred, the report, specification, drawings and details of the measurement of the work actually done on the same form as the estimates, should accompany the Completion report.]

Explanation to Accompany the Completion Report for Kampli & Bellagodall Channels Improvements

EXAM… P. W. ACC… 10 APR 1899

Repairs to Anicut.— A portion of work was carried out under a Separate Estimate (Regr: No 32 of 92.93 Rs 1460) prior to the sanction of this Estimate.

2. Constg a head Sluice. The excess is due to the following reasons:—

(1) The Omission of a ring bund which had to be more than once reconstructed owing to the ryots having breached it.

(2) The insufficiency of the amount of baling which was heavy as the work was situated near the river.

(3) No provision was made in the sanctioned Estimate for the removal of the old work which was composed of massive stones most difficult to remove under water.

(4) Concrete in Surki mortar was

C. IE FOR … 14 APR 1899 2/33 C

Substituted

substituted for Ordinary lime Concrete. This remark applies to all masonry works constructed on this Estimate

(5) Buttresses were built in rear of abutments as subsequently ordered by Mr. Medlicott the then Executive Engineer

(6) The sanctioned rate for beam stones which were all chisel dressed before they were used was increased and other sundry works which were not provided for in the Original Estimate were carried out.

Constg: 29 C. I. Pipes Aqueducts } The excess is chiefly due to the cost of pipes supplied by the P. W. workshops exceeding the sanctioned rate as well as no provision having been made for demolishing the existing works. The Estimate provided for 6" pipes throughout, but 9" pipes were used in some cases

to

to irrigate larger areas.

Proposed Extensions Kampli Channel } The estimate apparently was not prepared on sufficient information at first as to the nature of soil and the extent of masonry works required; besides for want of more detailed level sections, the quantity of excavation was greatly under estimated. When the work was started it was found that a great deal more excavation than allowed was required and rock of harder description met with requiring blasting in places. Nothing resembling the soft rock estimated for, was found and the rest of the excavation was hard gravel mixed with stones. The increase was chiefly due to (1) the slight deviation of the original alignment of the channel –

6 years ago

which

which would have required very heavy Embankment necessitating stone revetment which would have made the work more Expensive. The Earthwork alone has now cost Rs 6900 or 3 times as much as the sanctioned amount.

(2) Rs 3036 was paid for compensation for land which was necessarily required to be acquired while carrying out the work, but not provided for in the original Estimate (3) Rs 228 was spent for demarcating the channel as it was subsequently found very necessary to prevent Encroachments.

It is Expected that 100 acres more can be brought under wet cultivation which at Rs 6/ an Acre will yield a return of a little over 8 per cent.

The

Raising revetment left inner Slope.	The original provision is in Excess of actual requirements
Constg bridge at 6/3.	The increase is due to raising the piers and abatments as ordered by the Executive Engineer and using new stones instead of old as provided for in the Sanctioned Estimate.
8. Impg Sectional Area & bed of Channel.	Not carried out as the Executive Engineer considered it unnecessary owing to the channel being broader than necessary in many places.
9 Raising left bank of Chal.	Savings due to the whole provision not being actually necessary.
13. Constg: 37 Irrigation Aqueducts Across Bellagodall Channel	The Sanctioned Estimate provided for 37 Aqueducts

all

all with 6" pipes but only 35 were actually found necessary and of these six required 9" pipes to irrigate larger areas than originally proposed - The excess is chiefly due to (1) The sanctioned rate for C. I pipes being too low as all the pipes were supplied by the P. W. Stores (2) The utilization of 9" pipes in some instances (3) The demolition of the existing works and (4) Building of side revetments which were absolutely necessary.

14. 58 Irrigation Stone ware pipes Daltons - Excess is solely due to extra founds: having been subsequently found necessary owing to the nature of soil and providing retaining walls to prevent the pipes being wilfully destroyed.
This was ordered to be done by Mr. Medlicott the then Executive Engineer; Ringbund baling

baling

water were not provided for in the sanctioned estimate. These were found absolutely necessary as works were executed while channel was running -

The sanctioned rate for Shutters was insufficient as extra iron plates were used instead of cross bolts.

18 - Surplus weir & Sluice at 1/5 Bellagodall Chal. The masonry works allowed in the original estimate were found unnecessary as the weir was closed with earth well rammed -

20 - 86 Stone ware pipes Daltons - Eighty five Sluices only were constructed - 72 with 4", 8 with 6", and 5 with 9" pipes (2) Less concrete was used in founds: owing to rocky nature of soil as well as old stones for revetment instead of new stones as

provided

provided for in the estimate

22. Enlarging the vents. Found of 11. Sluices - Necessary as the Sluices had to irrigate a larger area than originally proposed

23. Petty Supervision - Provision in the Original Estimate for this item is Rs 1408, but the same is scattered in the estimates for Sub works - The total of the amount provided for in the respective Estimates comes up to Rs 1408 against which outlay recorded is Rs 1010 - only

Note Items 3 & 13 - The amount provided for in the Original Estimate for Cast iron pipes including fixing charges &c is Rs 3566. Value of the

same

same including Ry: charges as per P. W. Stores advices is Rs 4245 - excluding fixing charges - The excess on these items alone comes to Rs 679. -

General

The above remarks have been generally approved of by Mr W. B. Dewinton the then Supdg: Engineer - The Original of the Comparative Statement returned with Supdg: Engineer's endorsement is herewith submitted for perusal and return. -

Executive Engineer

CE&S

This draft was originally marked A.

~~Also~~ 2 more communications have now been added and it marked B – If this paper cannot be printed kindly have it copied in your office

Sorry cant do so for want of men

7/12/29

HC SWI
The order should not be printed – Please have it typed.

6/12/29