Public Works (1898) Department.

G.O., No. 2289 W

DATED 3rd September 98

[Despatch Abstract.]

Collector's Office at Cuddalore

Revised Estimate of Rs 116390 for additions & improvements to the — in the S. Arcot Dt, Sanctioned with remarks.

120/8

7/13

Indexed. 5/7

[P. W. 26. 1,000—12 2-98.]

BACK PAPERS.

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

FURTHER PAPERS.

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

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1898} of Madras.

PUBLIC WORKS.

Recd. } 1898. *Enclosures*
Regd. } *Spare copies*

G.O., No. 2289 W., 3rd September 1898.

SEPTEMBER.

Collector's Office at Cuddalore

Revised estimate of Rs. 1,16,390 for additions and improvements to the — in the South Arcot district, sanctioned with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read— the following papers :—

From the Superintending Engineer, V Circle, dated 27th May 1897, No. 90 W./C.
,, ,, ,, ,, ,, 12th September 1897, No. 368 W.
,, ,, ,, ,, ,, 16th October 1897, No. 98 W./C.
,, ,, ,, ,, ,, 19th December 1897, No. 534 W.
,, ,, ,, ,, ,, 15th February 1898, No. 113 W.
,, ,, ,, ,, ,, 6th May 1898, No. 318 W.

Note by the Chief Engineer, Public Works Department, on Revised Estimate for Collector's Office at Cuddalore.

An estimate, amounting to Rs. 1,02,230, for alterations and additions to the Collector's office at Cuddalore, South Arcot district, was sanctioned in G.O., No. 582 W., dated 12th March 1895. Shortly after the work was started, the Superintending Engineer applied for sanction to various deviations (as noticed below in paragraph 6) which were authorized by this office, a revised estimate being called for in the event of the excess caused by the deviations amounting to over 5 per cent of the estimate.

2. In April 1897 a revised estimate, amounting to Rs. 1,18,200, was submitted by the Superintending Engineer. The excess of Rs. 15,970 over the original estimate was mainly due to the inadequacy of the rates provided in the original estimate. The cost of brickwork in particular greatly exceeded the provision in the original estimate, this result being due, in addition to the inadequacy of the original rates, to the unauthorized grinding of mortar by steam, and to the superior description of facework put into the building. Another considerable cause of excess was on the sub head "concrete in foundations," the Superintending Engineer stating that, in parts where the building was founded on made earth, it was necessary to carry the foundations down to 13 feet in depth, and that surki concrete had to be used owing to the large amount of water met with in foundations.

3. This estimate, after two further revisions, and after prolonged examination of the comparative statement, and of the rates at which the work was actually executed, has now been reduced to Rs. 1,16,390, involving a total excess of Rs. 14,160, or 14 per cent. on the original estimate, and the sanction of Government to this excess is now required. The reduction in the amount of excess below that of the first revised estimate has been principally effected by eliminating items 60 to 69 of the comparative statement.

4. The comparative statement is composed of a large number of items, and the causes of excess can be grouped under the five following main heads :—

	RS.
(*a*) Increase in rates	10,515
(*b*) Deviations of design approved by the Chief Engineer	1,073
(*c*) Deviations in materials and in quantity of concrete	2,680
(*d*) Errors and omissions in original estimate	2,394
(*e*) Insufficient provision for demolition of old masonry	1,380
	18,042
Deduct—Sum due to savings and to omission of items 60 to 69 of comparative statement	3,882
Total excess ...	14,160

The increase due to (*a*), together with the causes thereof, is shown in the following table :—

Sub-heads.	Rate in original estimate.	Rate in final estimate.			Causes of increase.
	RS.	RS.	A.	P.	
1. Excavation of foundations. Earth filling basement.	4	4	9	0	Increased rates were unavoidable, and were due to the poor soil, earth slips occurring during rains, and it being necessary to thoroughly water and ram the loose soil on which the building is founded.
2. Brickwork in foundations.	19	21	4	0	The original rate of Rs. 19 was based on that of the district schedule. Excess said to be due to the expense entailed by grinding mortar by steam, and to the erection of pug and mortar mills, though this is not borne out by the data supplied.
3. Brickwork in superstructure.	20	* 23 † 27	12 2	0 0	The lower rate is for interior work built of bricks supplied by the contractor. Data for this item are not given, and the excess is mainly due to the same cause as given for (2). The higher rate for facework is partly due to the same cause as for (2), but is more especially due to the rejection of the contractor's bricks, and to the facework being done departmentally, with very superior bricks, costing as much as Rs. 12-12-0 per 1,000, by bricklayers imported from Madras.
4. Brick work in upper floor.	21	24	12	0	The rate of Rs. 24-12-0 follows on the above rate of Rs. 23-12-0 for interior work in superstructure, the usual addition of Re. 1 being allowed for the upper floor.
5. Brick parapets ..	22	28	0	0	Increase due to causes entered against (2) and (3).
6. Archwork in mortar.	22	30	2	0	Increase due to causes entered against (2) and (3), and to inadequacy of original rate.
7. Terrace roofing ..	22	26	4	0	Original rate based on that of the district schedule, but found insufficient.
8. Cuddapah slab ..	25	34	12	0	No proper calculations were made for original rates, which are wholly inadequate.
Do. slab flooring.	24	37	8	0	
9. Painting	2½	3	2	0	Original rate based on that of the district schedule, but found too low.

* For interior work. † For facework.

5. It will be apparent from the above table that the inadequate rates originally allowed, the grinding of mortar by steam, and the execution of a superior class of facework are the causes of the large excess in rates. The original estimate was prepared by Mr. Irwin, the late Consulting Architect to Government, and though the rates were based, in three cases, on the district schedule, it is apparent that the rates generally were not properly considered in the first instance, and to this fact, as well as to the omission to consult the local officers as regards rates, is primarily to be attributed the large excess on the original estimate. The district schedules of rates are usually little to be depended upon, and steps are now being taken to make them more complete and trustworthy. The Consulting Architect should in future, when he prepares estimates for buildings outside Madras, invariably consult the local officers before finally determining the rates. It is not apparent from the papers who is responsible for the excess involved in grinding mortar by machinery, but the Executive Engineer Mr. J. S. Wilson is presumably to blame.

6. *Item* (*b*) *of paragraph* 4.—The deviations from the sanctioned estimate, approved by this office, as mentioned in paragraph 1 above, are: increased width of foundations from 3′ 10½″ to 5′ 10½″; provision of damp proof course of ⅜″ ashpalte; and an additional staircase, steps and doors. These additions were all necessary and can be passed.

7. *Item* (*c*) *of paragraph* 4.—The excess is on the sub-head "concrete in foundations", and the cause has already been explained in paragraph 2 above. The extra cost was unavoidable, but formal sanction should have been applied for.

8. *Item* (*d*) *of paragraph* 4.—The excess is due to the entire omission of any provision for flooring the verandah, to errors in the measurement of the sub-head painting, to the omission of provision for whitewashing, and to necessary additions to the lightning conductor and to the thickness of archwork, the latter being increased from 1′ 1½″ to 1′ 6″. The defective manner in which the estimate was originally prepared is responsible for the excess.

9. *Item (e) of paragraph* 4.—The sum of Rs. 1,380 was the actual cost of demolition of the old masonry, the provision for this item in the original estimate being only Rs. 150. Against the cost of Rs. 1,380, a sum of Rs. 479 was realized from the sale of old materials. The original provision was thus much under-estimated.

10. The Superintending Engineer reports that the contractor has already collected 70,000 bricks for improving the adjacent buildings, so as to make them outwardly of the same design as the new building. The Chief Engineer, on inspection of the building in March last, decided that this was a needless expense, being entirely for the sake of appearance. The amount allowed for doing this work, items 60 to 69 of the comparative statement, has therefore been cut out of the estimate, and a lump sum of Rs. 400 has been allowed for repairs to the out-buildings. The cost of the bricks already collected can be charged to stock.

11. With these remarks, the revised estimate is recommended for the sanction of Government.

(Signed) W. B. deWINTON,
Chief Engineer.

12th August 1898.

ORDER—No. 2289 W., dated 3rd September 1898.

The revised estimate, amounting to Rs. 1,16,390, for additions and improvements to the Collector's office at Cuddalore, in the South Arcot district, is sanctioned in supersession of the estimate of Rs. 1,02,230, sanctioned in G.O., No. 582 W., dated 12th March 1895.

2. The outlay on the work to end of March 1898 was Rs. 1,14,995, and a sum of Rs. 3,211 has been provided in the current year's budget. The excess provision of Rs. 1,816 is withdrawn and credited to the Provincial reserve.

3. The attention of the Superintending Engineer, V Circle, is drawn to the Chief Engineer's note read above, and of the Consulting Architect to paragraph 5 of the note.

4. The sanction accorded in paragraph 1 has been registered as Provincial No. 58 W. of 1898-99, and classified as Civil Buildings—Original Works.

(True Extract.)

(Signed) W. B. deWINTON,
Secretary to Government.

To the Superintending Engineer, V Circle, with enclosures.
,, Superintending Engineer, II Circle.
,, Consulting Architect to Government.
,, Examiner, Public Works Accounts.
,, Revenue Department.

Exd. T. K. Narayana Aiyangar.

E. the Governor.

Public Works DEPARTMENT.

Papers to be read in Proceedings :—

7

Again G.O., dated 189 ., No.
Again G.O., dated 189 , No.
Current No. 5366 of 1897, dated 27th May, from S. E. V Circle
" " 9191 " 1897, " 12th September, " do
" " 10357 " 1897, " 16th October, " do
" " 100 " 1898, " 19th December, " do
" " 1459 " 1898, " 16th February, " do
" " 4042 " 1898, " 6th May, " do
Note by the Chief Engineer, P. W. Department, dated 12th August 1898.

ORDER.

No 2289 W d/ 3.9.98

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3. The attention of the Superintending Engineer, V Circle, is drawn to the Chief Engineer's note read above, and of the Consulting Architect to para 5 of the note.

4. The sanction accorded in para 1

Note for Press

Please short proof - Rm 5.5.98

vide separate note flagged R

13 + 1 [illegible]

The Revenue Department for favour of [illegible]

13

A.A.H. 30.8.98

P. W. 4.
500-24-3-98.

[illegible] H.E. 29.8.98 R 31.8.98

1 has been registered as Provincial No. 58 W of 1898-99, and classified as Civil buildings, Original Works.

ACW
16.8.98
D.W.

Maj

I/B

The S.E. V Circle with enclosures.
" S.E. II Circle
" Consulting Architect to Govt.
" Examiner, P.W. Accounts
" Revenue Department.

Note

The estimate has been dealt with in the technical notes flagged H, N, S, W, and Z and the note by the Chief Engineer flagged D.

ACW
16.8.98.
D.W.

Maj

W

C.No 4040

Public Works DEPARTMENT.

Rev. Dept

P.W. C.No. 4040 with draft order received for Counter-initials

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To Under Secretary

An estimate amounting to Rs 1,02,230 for certain additions and improvements to the Collector's office at Cuddalore was sanctioned in G.O. 582 W 12-3-95 in view to providing additional accommodation for records and for certain officers. Alterations in the estimate having since been found necessary, the P.W. draft order below proposes to sanction a revised estimate for Rs 1,16,390 involving an excess of Rs 14,160. This excess is due mainly to:

V

(1) Inadequacy of the rates provided in the Original Estimate

para 4 of C.E's note dy 12-8-98 flagged D

Rev. Dept.

estimates, deviations in materials &c, certain errors and omissions, &c and to

(2) Deviations of design approved by the Chief Engineer. (Estimate Rs 1073)

With item (1) the R.D. has nothing to do.

The deviations in design (item 2) consist of the following additional work

(a) Increased width of foundation.

(b) Provision of damp proof course of asphalte

(c) Wooden stair case to the Police room.

(d) Addl steps in front of the building.

(e) 2 addl doors to retiring rooms.

Item (e) was ordered in G.O. 582 W / 12-3-95.

With regard to the remaining items the Chief Engineer says they were all necessary and may be passed.

RS
4-8-98

25/8/98

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W

The data are clearly vague approximations to the actual work done, and cannot be regarded as of much use. They abound in discrepancies, & the causes of excess, as traced from them, are not the same as given in the comparative statement.

2. It is clear enough, however, what the causes of excess are mainly due to, & they are traced in the accompanying note.

3. Proposals will follow for making the Schedules of Rates more trustworthy than they now are.

ASK
9-8-98.

The estimate can now be submitted for sanction

12.8.98

~~His~~ Excellency the Governor Public Works DEPARTMENT.

Papers to be read in Proceedings :—

Again G.O., dated 189 , No.

Again G.O., dated 189 , No.

Current No. 5366 of 1897, dated 27th May 1897, from the S.E. V circle.

" " 9191 " 1897, " 12th September 1897, " Do

" " 10357 " 1897, " 16th October 1897, " Do

" " 100 " 1898, " 19th December 1897, " Do

" " 1459 " 1898, " 15th February 1898, " Do

" " 4052 " 1898, " 6th May 1898, "

Note by the Chief Engineer P.W.D. d/

ORDER.

The Revenue Department for favour of countersignature

Recorded

The revised estimate, amounting to Rs 116,390, for additions and improvements to the Collector's office at Cuddalore in the South Arcot District is sanctioned in supersession of the estimate of Rs 102230 sanctioned in G.O. No. 582 W dated 12th March 1895.

2. The outlay on the work to end of March 1898 was Rs 114,995, and a sum of Rs 3211 has been provided in the current year's budget. The excess provision of Rs 1816 is withdrawn and credited to the Provincial reserve.

3. The attention of the Supdg Engineer V circle, is drawn to the Chief Engineer's note read above

P. W. 4.
500—24-3-98.

above and of the Consulting Architect to para 5 of the note.

~~4. The Government concurs with the Chief Engineer in considering that the Executive Engineer Mr J. S. Wilson is principally to blame for the excess expenditure involved in grinding mortar by machinery.~~

5. The sanction accorded in para 1 has been registered as Provincial No. W of 1898-99, and classified as Civil Buildings, Original Works.

The S.E. V circle with enclos.

" S.E. II circle
" C.A. to Govt
" Examiner P.W. Accts.
" Revenue Dept.

May W

Note.

The estimate has been dealt with in the technical notes flagged H, N, S, W, and Z and the note by the Chief Engineer flagged D

Re write - omitting para 4

LWS
12th Oct

May W

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1 to 4 & 11

9P

Note
on revised estimate for Collector's Office at Cuddalore.

An estimate, amounting to Rs 1,02,230, for alterations & additions to the Collector's Office at Cuddalore, S. Arcot District, was sanctioned in G.O. 582 W, dated 12 March/95. Shortly after the work was started, the S.E. applied for sanction to various deviations (as detailed below in para 6) which were authorised by this Office, a revised estimate being called for in the event of the excess caused by the deviations amounting to over 5 per cent of the estimate.

2. In April, 1897, a revised estimate, amounting to Rs 1,18,200, was submitted by the S.E. The excess of Rs 15,970 over the originally estimate was mainly due to the inadequacy of the rates provided in the original estimate. The cost of brickwork in particular greatly exceeded the provision in the original estimate, the result being due, in addition to the inadequacy of the original [illegible], to the unauthorised grinding of mortar by steam, & to the superior description of facing [illegible] put into the building [illegible]

Another considerable cause of excess was in the sub head 'Concrete in foundations', the S.E. stating that, in parts where the building was founded on made earth, it was necessary to carry the foundations down to 13' in depth, & that brick in concrete had to be used owing to the large amount of water met with in foundations.

3. This estimate after two further revisions, & after prolonged examination of the Comparative Statement, and of the lower rates at which the work was actually executed, has now been reduced to Rs 1,16,390, involving a total excess of Rs 14,160, or 14 per cent, on the original estimate, and the sanction of Govt to this excess is now required. The reduction in the amount of excess below that of the first revised estimate has been principally effected by eliminating items 60 to 69 of the Comparative Statement.

4. The Comparative Statement is composed of a large number of items, & the principal excess can be grouped

under the 5 following main heads :—

	Rs
(a) Increase in rates —	10,515
(b) Deviations of design approved by the Chief Engr. —	1,073
(c) Deviations in materials & in quantity of concrete —	2,680
(d) Errors & omissions in original estimate —	2,394
(e) Insufficient provision for demolition of old masonry —	1,380
	18,042
Deduct sum due to savings & to omission of items 60 to 69 of Comparative Statement	3,882
Total excess	14,160

The increase due to (a), together with the causes thereof is shown in the following table :—

Sub Head	Rate in original est	Rate in final estimate	Causes of increase
	Rs	R. A	
Excavation of foundations Earth filling basement	4	4. 9	Increased rates were unavoidable & were due to the poor soil, earth slips occurring during rains, & it being necessary to thoroughly water & ram the loose soil on which the building is founded.
2 Brickwork in foundations	19	21. 4	The original rate of Rs 19 was based on that of the District Schedule. Excess said to be due to the expense entailed by grinding mortar by steam, & to the erection of Pug & Mortar Mills, though this is not borne out by the data supplied
3 Brickwork in superstructure	20	23. 12 for interior work 27. 2 for face work	The lower rate is for interior work built of bricks supplied by the Contractor. Data for this item are not given, & the excess is mainly due to the same causes as given for (2). The higher rate for facework is partly due to the same cause as for (2), but is more especially d[illegible]

			with very superior bricks, costing as much as Rs 12.12 per 1000, by bricklayers imported from Madras
Brickwork in upper floor	21	24. 12	The rate of 24.12 follows on the above rate of 23.12 for interior work in superstructure, the usual addition of Re 1 being allowed for the upper floor.
5. Brick parapets	22	28-0	Increase due to causes entered against (2) & (3).
6. Archwork in mortar	22	30. 2	Increase due to causes entered against (2) & (3), & to inadequacy of original rate
7. Terrace-roofing	22	26. 4	Original rate based on that of the District Schedule, but found insufficient
8. Cuddapah slabs Do — slab flooring	25 24	34. 12 37. 8	No proper calculations were made for original rates, which are wholly inadequate
9. Painting	2½	3. 2	Original rate based on that of the District Schedule, but found too low

5. It will be be apparent from the above table that the inadequate rates originally allowed, the grinding of mortar by steam, & the execution of a superior class of face work, are the causes of the large excess in estimates. The original estimate was prepared by Mr Irvin, the late Consulting Architect to Govt., & though the rates were based in 7 cases, on the District Schedule, it is apparent that the rates generally were not properly considered in the first instance, & to this fact as [illegible] to consult [illegible] excess can be grouped

[illegible] to the

the local officers before as regards rates, is primarily the attributed the large excess in the original estimate. The District Schedules of Rates are usually little to be depended upon, & steps are now being taken to make them more complete & trustworthy. ~~To prevent the~~ The Consulting Architect should in future, when he prepares estimates for buildings outside Madras, invariably consult the local officers before finally determining the rates. It is not apparent from the papers who is responsible for the excess involved in grinding mortar by machinery, but the Ex. Engr. Mr. J. S. Wilson is presumably to blame.

6. Item (6) of para 4. The deviations from the sanctioned estimate, approved by this office, as mentioned in para above, are increased width of foundations from 3' 10½" to 5' 10½"; provision of damp proof course of 3/8" asphalte; and an additional staircase, steps, & doors. These additions were all necessary & can be passed.

7. Item (8) of para 4. The excess is in the sub head 'Concrete in foundations', & the cause

Public Works Department.

Current No. 5366

Letter No. 90W

Dated 27th May 1897.

From the Supg. Engr. 5th Circle.

2289 W

NOTE BY TECHNICAL SECTION.

Name of work Revised Estimate for additions & Improvements to the Collector's office at Cuddalore, South Arcot District.

Amount of Revised Estimate Rs. 1,

The S.E. 5th Circle sub Sanction, the Revised Estimate for Rs: 1,18,200 with Comparative Statement.

The Amount of the Original Estimate Sanctioned in G.O. No. 582 W, Dt 12th March 1895, is Rs: 1,02,230.

Excess over the Sanctioned Estimate is Rs: 15,970.

The cause of difference is explained in the remark Column of the Comparative statement and report attached to the Estimate.

The Chief items of Excess are:

	Rs.
(a) Demolishing Masonry – (Excess due to Extra Quantity)	1,380 100
(b) Shed for Materials (Extra item)	687
(c) Mangoe wood plat-form for mixing Concrete – (Extra)	259
Carried over	2,42

1. Reminder issued 20.8.97

Dw

~~No. 30 I/5th C. D/ 5-7-97~~

~~memo~~

~~EE~~

~~10/6/97~~

To the Supdt. Engineer, V circle

from the Executive Engineer's letter No. 328 S.E. dated 22nd April 1897 it is found that this is a contract work, in which case it is desirable that the contractor's bond or the contractors' bonds should be submitted for consideration as to why he or they should be paid higher rates than those to which he or they may have already agreed, for it is noticed that the excess over the original estimate is largely due to increase of rates. Moreover, it is thought that a shed for the contractor's materials

7/7/97

P. W. 60
200—2-9-96.

Brought forward Rs:	2,426
(d) Excavation due to Extra Quantity + increased rate	205
(e) Concrete- Extra in Quantity + increase in the rate-	2,856
(f) Earth filling- due to Extra Quantity + increased rate	212
Sand filling	228
(g) Brickwork (Excess due almost to increased rate	8,094
(h) —Do —Do— to Extra Quantity-	477
(i) Terrace roofing (due to increased rate)	784
j) Cuddappa slab flooring (due to increased rate)	2,334 262
) Painting (due to increased rate)	739
, Cuddappa Slabs for Cornice (due to increased rate)	575
n) Asphalte damp proof Course (Extra work)	353
Total Rs:	19,545
Excess due to other Petty items	992-
Total Excess-	20,537 -
Deduct Savings in cut stone, Rolled iron beams, Plastering, Contingency &ca	4,567
Net Excess over original Estimate	Rs: 15,970.

Remarks.

(a) The rates provided in the Revised Estimate for demolishing ~~brickwork~~ roofing, are very much in excess of the Schedule rates (I mean ordinary rates)

Demolishing tiled roofing- Rate allowed 2-0-0 against- Schedule nil- Madras rate 8 as.-

-Do— Flooring —2-0-0- do — Schedule- Nil- Madras rate 1-4-0

Cartage for removing the above debris has been separately charged-

(b) There being no provision in the original

and a platform for mixing his concrete should, if not specified to the contrary in the original estimate, form part of the Contractor's arrangements and be included in his accepted tendered rates. ~~Moreover~~ Furthermore some of the rates seem unnecessarily high, as for instance the following:-

(1). Demolishing flooring- Rs 2 per 100 cubic feet- Madras rate R1-4.

The total of the items provided in the revised estimate for Demolition, including the removal of debris, amounts to Rs 430 against Rs 150 allowed in the original estimate, an item stated in the report to be "very inadequate". This may be so and presumably the Contractor will lose on this item: but if he agreed to do the work for Rs 150, it is not clear why he should be paid more than ten times that amount. It is further stated that a considerable sum was realized by the sale of old material and by use in the building: if such be the case it should be explained why no item is separately shewn on that account, as a credit to the work, in the column "Less" of the Comparative Statement. If the proceeds were credited to Revenue, the sum so credited might have been mentioned.

(ii) Sarki Concrete- Rs 16 in the revised estimate against Rs 14 to Rs 15 in the schedule, and there are no data in support of the increase.

(iii) Brickwork (foundations and basement). Rs 21-4-0 against Rs 17-8 to Rs 20 in the schedule; and the data submitted are apparently incorrect. They provide for one bricklayer and 1½ man cooly more than usual, while 12½ annas is allowed separately for grinding, an item which should be included in the women coolies: moreover 5 annas, i.e. 1 anna per para of lime, should suffice for that item. An allowance of R1 for Contractor's profit emphasises the argument that he should provide his own storage for materials as noticed above-

(iv). Brickwork (Superstructure) Allowing Rs 20 the higher schedule rate, for foundations and basement, an additional R1 should suffice for the lower story. But a rate of Rs 23-12 has already been paid to the Contractor

For grinding 5 parahs of Chunam, these different rates are charged- Please see detailed data-

original Estimate, the Contractors should have been told to make his own arrangements for the same-

(c) Mangoe wood for platforms for mixing Concrete is quite unnecessary. One layer of bricks laid flat on a level piece of ground is all that is wanted-

(d,e+f) Please see para 6, Executive Engr's letter + S.E.'s remarks in the margin- (Letter in file)

{Rate allowed for Sarkie Concrete in the Revd. Est. is Rs. 16 against 14 to 15 in Schedule.

(g+h) Brickwork.

Foundation + Basement.

Rate allowed, Rs: 21-4-0 against 17½ to 20 Rs in Schedule.

The detailed data Submitted is not Correct- It provides 1 Bricklayer + 1½ Men Coolies in Excess- also for grinding mortar, 0-12-6 is charged Separately, which Should not have been done- If grinding is Separately charged for, the number of women Coolies Should be reduced- Moreover, for grinding mortar of 5 parahs of Chunam, one anna per parah, is Ample-

0-12-6 - for Mortar reqd. for foundation + basement
1-6-0 - for -do- Superstructure
0-15-0 - for do - - Do - Upper Story
1-8-3 - for do — Do — Do Archwork

Brickwork in Superstructure

Allowing a rate of 20 Rs for brickwork in foundn + basement,

75/7

-(Please see pencil corrections in the detailed data), the rate for Superstructure should be 20+1=21 Rs. But, owing to the use of face bricks, which is charged at the rate of 12-12-0 per 1000 bricks, or Rs. 3-12-0 over the rate for ordinary bricks, the rate of 23-12-0, which is stated to have been actually paid, may be passed -

Brick work in upper story.

According to the detailed data submitted, the rate allowed in the Revised Estimate, is 24-12-0 The data furnished cannot be accepted for reasons already stated - The proper rate will be,

21-0-0 Rate for Superstructure,
+ 1-0-0 for upper story,
22-0-0 Total -

Archwork.

According to data submitted 30-2-0 - The proper rate is 22-0 + 3 = 25 Rs.

(i) Terracing.

According to detailed data the rate provided in the Revised Estimate is, 26-4- 24-6-0 for 100 Sqft - The Schedule rate is, 22 Rs -, which is for "Best terraced roofing with brick on Edge, 3" well beaten Concrete, 3 Courses of flat tiles & 3 Coats of plaster" -. The detailed data allows for Extra

2 Coats of Chunam above Rs: 2-4-0
and for labor „ 1-1-—
and Contractor's profit 0-5-0
These Extra charges are not understood -

(j) 0-9-0 for grinding 2 paraks of lime is Excessive - 2 as will do if it cannot be done by the boys Separately charged -

(k) The rate allowed in the Revised Estimate is Rs: 4-2-0 per Sq: against Rs: 3-2-0 in the Schedule The Detailed data allows 1 Rupee for Priming Coat & Rs: 2-6-0 for 2 Coats of Silicate White paint - Total rate is 3-6-0. To this is added again 0-12-0 for Painter, grinder & brushes &c, which is not at all understood -

The priming Coat, as is done in Madras, Costs about 8 or 10 as per sq. Therefore, the Schedule rate of Rs: 3-2-0, which is the highest rate for 3 Coats of Charlton's Imperial Zinc white paint, would be Ample -

In the Concluding para of his letter No. 328 S.E., D/ 22d April/97, the Executive Engineer, requests permission to pay the Piece workers at the rates of the Revised Estimate -

AC
10/6/97.

on the authority of Mr. Wilson. The data, however, can not be accepted for reasons stated under ~~para~~ (iii), and there seems to be nothing to warrant a further increase of the rate to Rs 27-2 for the benefit of the contractor. For the upper story, no face bricks having been used, Rs 22 should be enough; and it is not clear that the contractor did not agree to do the work for less.

(V.) Archwork. The data can not be accepted for reasons similar to those regarding the objection to the rate for brickwork in foundations and basement - It is considered that the rate for this work should not exceed Rs 25.

(VI). Terracing. The data allow for extra work the necessity for which is not explained; and no case has been made out for increasing the schedule rate of Rs 22.

Cuddapah Slab flooring

(VII). The item, 9 annas, provided in the data for grinding where there are only 2 paras of lime, is considered excessive; and there may be other items in the same data requiring revision.

(VIII). Painting. Three coats of Charlton's Imperial zinc white paint can easily be laid for Rs 3-2 per square departmentally, if not by contract: therefore the necessity for raising that rate to Rs 4-2. cannot be admitted.

(IX). Cuddapah Slabs for Cornice. Remarks similar to those for Cuddapah Slab flooring apply.

2. From the above it will be seen that the necessity for increasing to the extent proposed rates has not been made clear.

2/7/97

C.H.M.S.
26.6.97.

W

6/7/97

(2)

Public Works (1897) Department.

CURRENT No. 5366

Order

From The Supg Engineer
5th Circle.

No. 90 D/c

Dated 27th May 1897.
Received 1-6-97
Enclosures ~~5~~ 7
Spare copies

SUBJECT.

Collector's Office at Cuddalore.

—

Submits for sanction the revised Estimate of Rs 11,8,200 with comparative statement for additions & improvements to—

J / For sanction

Cn 1/6/97

O.L.S 202 sent again 1/7 15/7

BACK PAPERS.

G.O.	No.	Department.	Date.
	2510 C	PW.	14-8-95
	2454 C	„	6-8-95
	582 W	„	12-3-95
	503 W	„	17-2-92
	735 W	„	19-3-86

FURTHER PAPERS.

G.O.	No.	Department.	Date.

No. 90 W/C

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Camp Lower Anicut
Chepâk, 27th May 1897

From
Lieut Colonel C. C. Rawson R.E.
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer,
P.W. Department.

SIR,

Enclosures. 5
1 Report
1 Detailed Estimate
1 Data
1 Comparative statement
1 copy of the Exe. Engineers letter N. 328 of 22.4.97
5

I have the honour to submit for sanction the enclosed revised estimate of Rs 1,18,200/. with Comparative statement, for additions and improvements to the Collector's Office at Cuddalore in the South Arcot District.

2. The cause of the differences now shown in several items of work of the original estimate of Rs 1,02,230 sanctioned in G.O. N. 582.W. dated 12 March 1895 is explained in the remark column of the comparative statement and report attached to the estimate.

3. A copy of the Executive Engineers letter No. 328 SE. dated 22nd April 1897 is forwarded herewith for information.

I have the honour to be,

Sir,

Your most obedt Servant

27.5.97 Lt Col RE

Supdg Engineer 5 Circle

D 25.5.97

DW

For orders.

Cs
2/10/97

Public Works Department.

Current No. 9191

Letter No. 368 W

Dated 12th September 1897

From the Supdg Engineer V Circle.

NOTE BY TECHNICAL SECTION.

Name of work Additions and improvements to the Collectors office at Cuddalore

Amount of Estimate Rs 119060.

With reference to this office Memo. No. 3075C dated 5th July 1897 the S E V Circle resubmits the revised estimate for sanction, together with 7 contractors' bonds, a copy of the E E's letter No. 648 SE of 8th Sept. 1897 and a note from Supr. Phelan on the revised rates.

In the E E's letter referred above, it is stated that the rates entered in the revised estimate are rates agreed to by piece workers and not those of the original estimate, except in the case of Ramanatha pillai's agreement for the Armourers Shop, on which a pencil note is made to the effect that the piece worker had left the work unfinished & that an item of filling earth in basement in agreement No. 2 from the same contractor, where a rate of Rs 2 tendered for 1000 cft. has been increased to Rs 4.... in the revised estim

P. W. 60
250—25-4-97.

estimate, owing it is stated to a good deal of extra ramming and labour incurred in bringing earth from a pond in the neighbourhood.

In regard to the high rates noticed in the revised estimate, the E E submits a note drawn up by Sergt. Phelan who is reported to have been in charge of the work from its commencement.

From Sergt. Phelan's note, the following information is available on the points noticed in this office Memo. No. under reference.

(1) That the rates entered in the revised estimate for demolition were those tendered by a contractor and that the E E has satisfied himself that the rates thus tendered were not excessive, owing to the difficult nature of the work.

(2) A data sheet for concrete in surki mortar is now submitted in support of the rate entered, viz. Rs 16.

But stated by the Executive Engineer to be imaginary.

(3) The difference in rate between sanctioned & revised estimates, viz. Rs 19 & 21-4.. respectively, for brickwork in foundations and basement, is stated to be due largely to grinding mortar by steam in mortar mills. The contractor being paid only Rs 20.5.. per 100 cft of masonry or Rs 1.5.. in excess of the sanctioned rate, the balance, annas 13 were for carriage & erection of mortar and pug mills and to the making up of brick moulds &c.

brick

It will be observed from agreement No. I of Chinasawmy Padayachi that he has tendered to supply 1st class table moulded bricks delivered at site for Rs 8.8.. per 1000, the necessity for supplying him with brick moulds and erecting pug mills &c. is not apparent.

It will also be observed from the data lists submitted, that the cost of grinding a para of lime mortar is charged at 2½ annas, whereas in the data lists for brickwork in superstructure, flooring basement with Cuddapah slabs, Cuddapah slabs for cornice and terracing roofing, a rate of 4½ per para is entered; the necessity for this deviation in rate may be explained.

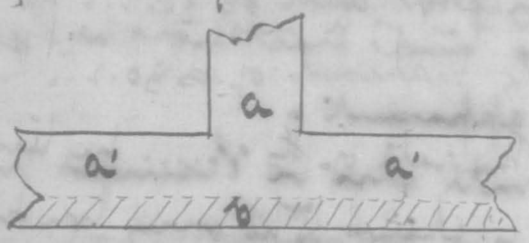
(4) Brickwork in superstructure, lower floor. It is reported that from a rate of Rs 27.2.. as per data submitted, only Rs 23.12.. was paid to the contractor, the balance of Rs 3.6. was due to the outside work being done departmentally with face bricks.

The increase in rate is stated to be due to Rs 9... being paid for better class of ordinary bricks instead of Rs 8.8.. the tendered rate & to increase in cost for grinding mortar by steam.

A serious error appears to have been made in this subhead of the revi[illegible]timate, for it will be

observe

observed that the contractor tendered & was paid Rs 23-12.. for ordinary masonry in the lower floor, i.e. for all walls except those with faced bricks & that the walling with face bricks were executed department:ally at Rs 27.2.. thus:-



a, a', a', inner & inner face walls at Rs 23-12.. as worked by con:tractor,

b walling with face bricks at Rs 27.2.. as executed departmentally.

The quantity of masonry in the lower floor is entered in the compara:tive statement as 52,666 cft against the original quantity of 51483 cft, the revised quantity is rated throughout at Rs 27-2.. per 100 cft whereas it should be separated in two rates, as all the interior walling was paid for at Rs 23.12.. & the outer at Rs 27.2.... The quantity of 52,666 cft is for walls a a' & b & this quantity should be represented in the com:parative statement as.

52,666 { walls a'a at Rs 23-12.. per 100
{ do. b at Rs 27-2.. -do-

This will then considerably reduce the column under excess.

(5) The above remarks refer to archwork, except that no face bricks are provided for in the data at Rs 12¾ per 1000. for when the outer face of walls are faced with superior bricks, the archwork should be similarly faced.

Again the quantity of 8869 cft of archwork should also be rated par:ly at Rs 28.8.. for work executed b the contractor and Rs 30.2.. for depar :al work instead of Rs 30.2.. through

(6) The rate of Rs 22.... for terrace roofing is shown to be very low when compared with Rs 18.8.., the original & tendered rate for terrace flooring as 2 extra courses of flat tiles & 2 coats of plaster has to be added to the rate of Rs 18.8.. to form a terrace roof. The explanation appears reasonable & ~~there~~ the rate may be passed.

(7) The high cost noticed for grinding mortar is stated to be due to the grinding being done by steam, also to the high rate tender:ed for Cuddapah slabs.

(8) The rate of Rs 4.2.. entered in revised estimate for painting 2 coats with Charlton's silicate paint has now been reduced to Rs 3.2.. per square.

(9) Cuddapah slabs for cornice, vide remarks similar to those in No. 7.

It will be seen from the data lists submitted, the variation in cost for grinding lime mortar thus

(a) The brick masonry for foundations & basement where 8 of lime to 10 of sand is ground, a rate of 2½ as is allowed per para or — Rs ..12.6 for the whole. ✓

(b) The brick masonry for superstructure lower floor, for the same quantity, 4½ as per para, or for the whole Rs 1.6.. ✓

(c) — do — do. in upper floor for the same quantity, only 3 as per para, or for the whole — Rs ..15.. ✓

(d) For archwork, the same quantity about 5 as per para, or for the whole 1-8-3. ✓

again surki is entered in the data for Cuddapah slab cornice, at 2 as per para, whereas for surki concrete, 4½ as a para. These differences should, it is submitted, be explained.

| What explanation can be given?

The revised estimate apparently has not been carefully scrutinized in the S.E.'s Office.

| Certainly not
CHS
13-10-97.

The revised estimate has not been countersigned by the Collector.

1/10/97

The following tendered rates have been slightly increased in the revised est.:

Excavation of foundation Rs 4.... against Rs 4.9..
Earth filling, basement — 2.... — do — 4....
Cut stone for bed plates — 1.8.. — do — 1.12..

I don't understand the rate of Rs 27.2.0 ~~in the~~ Ex. Eng.'s data sheet it is said that the rate paid to contractors is Rs 23.12.

29.11.97

What is the difference in total cost of this item taking the rate at Rs ~~23.12~~ 24 & Rs 27.2, & what is the cause of excess in quantity?

W.

Some of the work cost Rs 23-12 and some Rs 27-2: but it is not possible to say how much work was paid for at the lower rate and how much at the higher. As that done by contract cost Rs 23-12 & that done departmentally Rs 27-2 the Depy. Engineer should have separated them also the rates & quantities instead of entering a rate of Rs 27-2 for all and thus showing a greater expenditure than what actually occurred. Without a reference to the S.E. I do not see how the difference in total cost is to be determined.

Item 15. The excess in rate is due to superior bricks being used for the face work.

Item 16 The excess in rate is due to the original rate being too low for this class of work. ~~Int~~

Ask the S.E. if he cannot separate the work done at Rs 23.12 from that done at Rs 27.2.0 & give at any rate the actual cost of the subhead, which was apparently considerably less than the amt. entered in the Comp. statement. Return the papers quickly

29.11.97

Public Works Department.

Current No. 100

Letter No. 534 W.

Dated 19th Decr. 1897

From the Supg Engineer V Circle.

NOTE BY TECHNICAL SECTION.

Name of work Collectors office at Cud:dalore. South Arcot Dist.

Amount of Estimate Rs 119,677

With reference to this office Memo No. 5179 C dated 1st Decr. 1897, the SE V Circle resubmits the revised estimate for additions and im:provements to the Collectors office at Cuddalore in the South Arcot District duly separating the work done by contract from that done departmentally under item 15, "Brickwork in superstructure, lower floor."

The first revised estimate a:mounted to Rs 119,060 and the pre:sent or 2nd revised estimate, amounts to Rs 119,677 showing an excess of Rs 617 over the 1st revised estimate.

From the comparative statement it will be observed that the item of brickwork (15) has been reduced from Rs 3988 to Rs 2900 showing a saving of Rs 1088. This saving has now been

W For orders

In the first revised est. the whole of item 15 (see Comp. statet) "Brickwork" was entered at R 27-2-0. The S.E has now separated the two kinds of work - "ordinary" & "face work" & shown the former at R 23-12-0 & the latter at R 27.2-0 - This reduces the excess on this subhead by R 1088 (In the 1st revised est the excess was R 3988 - it is now R 2900) but to balance this, R 1088 has been added on to the item "contingencies" & no explanation for doing so given.

2. In the revised est. now submitted an entirely new item, which did not appear in either the original or 1st revised est, has been introduced. It is

Terrace Roofing

2350 sq. ft at R 26.4.0 = R 617.

- see item 67(a) of Comp. statet

In the detail est it is put right at the end of the est. see p.12 of detail est ("flagged" D) & is obviously an after thought.

No explanation for now including this item has been given

[P W. 60 / 250-30-2-97.]

tacked on to item 59 "Contingencies" which has been increased from Rs 1500, provided in 1st revised estimate to Rs 2,588 in now submitted.

The excess in quantity of 1183 Cft on the item of brickwork (15) is due to additional walls built between the Treasury and the sanctioned extension, since the submission of the original estimate & which was not anticipated at the time of its submission.

A new subhead, item 67(a) Terracing, amounting to Rs 619 has now been provided for. This was not allowed in original or 1st revised estimate and should have been foreseen when the 1st revised estimate was submitted.

The necessity for increasing the item of contingencies 59 by Rs 1088 is not apparent.

7.1-98

W.

Reply submitted

15/1

3. The cost of grinding mortar varies in different sub heads in an inexplicable manner - see para (9) of note by I dated 1-10-97 -

Some explanation of this should be given

4. The rates for the following items, which are all in excess of the original est. rates, have been checked & may be passed -

16
17
18
39
46
47
49
72
73
76
84

10/1/98

note W has already seen the file & written his remarks about the 1st in items

10/1/98

Please see my notes, & pencil questions in margin. T. to settle the C. that question afterwards. S.E. must be called upon to explain items 59, 67(a), & anything else not elucidated. I also want to know by whom & when the original est. was prepared, & when S.E.'s Comments on the wor

Urgent.

No 5179C Dd 1-12-97

P. W. D

Memo.

In returning the enclosures received with endorsement No. 368 W dated 12th September 1897 to the Supdg Engineer V Circle, the undersigned has the honour to observe that in the comparative statement under item 15, "Brickwork in superstructure, lower floor", a rate of Rs 27:2.0 is entered against Rs 20, and the quantity increased from 51,483 c. ft. to 52,666 c. ft. In the data sheet, however, it would appear that a portion of this work was executed by contract and a portion departmentally.

The Supdg Engineer is requested to report whether he cannot separate the work done by contract at Rs 23.12.0, from that done departmentally at Rs 27.2.0, or to state, at any rate, the actual cost of this item which is apparently considerably less than the amount entered in the comparative statement

2/12/97

3. Very early return of these papers, with the above information, is requested.

L Hill
30.11.97

EW

CWH
30.11.97

I/B

S. E. V Circle with Enclos 15

9/6

Public Works (1897) Department.

CURRENT No. 9191

Order

From The Supdg Engineer
5th Circle

No. 3688

Dated 12th September 1897
Received 14-9-97
Enclosures (15) Fifteen
Spare copies

SUBJECT.

Collectors Cutcherry at Cuddalore.

Resubmitting the revised Estimate for improvements to the — with the necessary explanation for Sanction

I
Jovon

0LS.523

BACK PAPERS.

G.O.	No.	Department.	Date.
	3075	C PW	5-7-97
	2510	C -	14-8-95
	2454	C -	6-8-95
	582	W -	12-3-95
	503	W -	17-2-92
	1064	C -	16-3-86
	735	W -	19-3-86

FURTHER PAPERS.

G.O.	No.	Department.	Date.

N°. 328 Sl.

South Arcot Divisional Office
Cuddalore Dated 22d April 1897

From
A. H. Garrett Esquire
Executive Engineer,
South Arcot Division.

To
The Superintending Engineer,
5 Circle.

Sir

I have the honour to forward a revised estimate for additions and improvements to the Collectors Cutcherry, Cuddalore.

2. It will be seen that the excess over the original estimate amounts to Rs 15,970 and that this large amount is almost entirely due to higher rates.

3. For the first 6 items in the comparative statement it seems clear that the provision in the original estimate was inadequate.

There were existing buildings on the site which had to be removed
Ay

4. Nothing was allowed originally for sheds and the provision now made is not excessive.

5. Considering the large amount of concrete used, I think the cost of the platforms

should

should have come out of the rate, but this is not a large item.

6. There has been a very large excess on the amount of concrete put into the foundations. There is nothing on record in my office to explain this, but probably you are acquainted with the facts of the case.

The building is situated on a mound of made earth, some of the foundations were 13' deep & there was much water owing to which there had to be used
Ch

7. The excesses on brickwork amount to about Rs 8000 owing to the greatly increased rates, which apparently have actually been paid on the authority of Mr Wilson. Data for the higher rates are enclosed.

Only first class table moulded bricks were used. The rate paid is not too much if compared with the rate paid to Consulting Architect's firm for similar work.
Ch

8. The rate for terraced roofing has to be approved, and data are now submitted in support of the proposed rate, which is somewhat less than the contractor's tender rate.

9. The rate for Cuddapah slabs entered in the original estimate was certainly too low. Before entering into an agreement with a contractor Mr. Wilson wrote to the Consulting Architect to ascertain the correct rate.

10. Seeing that the expenditure on Contingencies up to end of March has only been Rs 36, I do not think more than Rs 1,500 need be allowed under this head.

It is requested that orders on this point may be given soon.
Ch

11. Permission is requested to pay the pieceworkers at the rates of the revised estimate.

I have etc.

(Signed) A. H. Garrett
Executive Engineer

(True copy)

27.5.97 Lt Col RE
Supdg Engineer 5th Circle

25.5.97

P.W.E. 7 / 5388/97

No. 1657 D., of 12th October 1897

The S.E. V circle.

The undersigned has the honour to request information as to the name of the officer who prepared the original estimate for additions and improvements of the Collector's Cutcherry at Cuddalore and also the favour of the Superintending Engineer's opinion as to whether it was ~~made~~ prepared with sufficient care.

11. 10. 97

CWH

11.10.97.

W.

The above refers to a revised estimate with which I am now dealing. H.E. is sure to ask for the above information.

CWH

11.10.97

To the S.E. V Circle

To the S.E. V Circle Despd 12/10/97

Copy of a letter from A. H. Garrett Esquire, Executive Engineer, South Arcot Division, to the Superintending Engineer, 5 Circle, No. 579 S.L. dated 9th August 1897.

With reference to your No. 263 S.a. of 10 July 1897, I have the honour to report as follows:–

2. The work was done on the piecework system and not by one contractor. I enclose the various piecework agreements, and it will be seen that work has been paid for at the rates therein entered.

3. No contractor agreed to demolish the old building for a lumpsum. Rates were fixed for demolishing different portions of the building (vide piecework agreements) Rs 479 were realized by the sale of old materials and the amount has been credited to revenue. There are about 40 old teak joists still remaining to be disposed of.

4. Surki Concrete – The rate was fixed without obtaining data in support of it and any data now submitted in support of the rate would be imaginary.

5. Brickwork – The data sent up are those, on which the increased rate was accepted by Mr Wilson.

6. Terracing – The estimated rate for terrace flooring is Rs 18.8.. and the data are intended

to

to prove that accepting this rate as correct, the rate Rs 26-4-. for terrace roofing was reasonable, seeing that an extra course of flat tiles is necessary.

7. Painting - This is being carefully supervised, and it is believed that the rate will not exceed Rs 3-2-., but the surface to be painted has been under estimated.

No 368 W.

Forwarded to the Chief Engineer P.W. Department, with reference to his memorandum No. 3075 C dated 5 July 1897.

Copy of the Executive Engineer South Arcot Division No. 648 S.E. dated 8 September 1897 with the note from Sergeant Phelan received with it is also enclosed for information.

The estimate etc are resubmitted for sanction.

Enclosures
1 Report
1 Detd. estimate
3 Data
1 Comparative statement
7 agreements
1 copy of the Ex: Engr's No $\frac{648}{JC}$ d/ 8.9.97
1 copy of notes

12/9/97 Colonel R.E.
Supdg. Engineer 5 Circle

12th September /97

9.97

P. W. Department.

Read the following:—

His Excellency the Governor

FOR ORDERS.

"Flag" X — In G.O. No 582 W of 12th March 1895 an estimate of Rs 1,02,230 was sanctioned for additions and improvements to the Collector's Office at Cuddalore, S. Arcot. On a representation by the Superintending Engineer V circle in a letter No 248 W dated

"Flag" N — 3rd July 1895 the Chief Engineer

"Flag" L — P.W.D, in memorandum No 2454 C dated 6th August 1895, approved of certain deviations referred to by the Superintending Engineer observing that should the cost be less than 5 per cent on the original estimate the Superintending Engineer might, on his own responsibility, sanction the excess under clause (k) para 61, Chap III

43—500—22-1-96.

FOR ORDERS.

Volume I of the P.W. Code, otherwise the submission of a revised estimate "Flag" with further explanation would be necessary.

2. Nothing more was heard about the matter till 1st June 1897 when letter No. $\frac{90W}{C}$ dated 27th May 1897 was received from the Superintending Engineer, submitting for sanction a revised estimate of Rs 1,18,200 or "Flag" K of Rs 15,970 in excess of the original sanction. This difference, subsequently corrected to Rs 16,830, at which it now stands, included, not merely the deviations above mentioned but, larger excesses due to increasing rates and other causes. As the reasons, assigned for increasing the rates and doing other work in excess of sanctioned estimate, deemed unsatisfactory, Memorandum No. 3075C "Flag" I dated 5th July 1897 was issued calling for explanation on a variety of points particularly as regards the data for the "Flag" J rates which could not primâ

Read the following:—

FOR ORDERS.

facie be accepted. To this memorandum the Superintending Engineer has replied in an
"Flag" C. endorsement No. 368W of 12th Sept 1897 with enclosures noted therein —

3. The accompanying Summary deals with the case in 3 columns thus:—

Column 1. Points noticed in Chief Engineer's memo No. 3075C
"Flag" I. of 5th July 1897

Column 2. Purport of explanation received from
Vide enclosures to "Flag" C. the Superintending Engineer.

Column 3. Remarks.

From a perusal of the Summary it will be seen

(1) That revised rates

been fixed by the Executive Engineer according to his discretion.

(2) That there was great delay in submitting the revised estimate.

The amount requiring sanction is Rs 16,830, but, for reasons given in page 6 of the Summary, it is thought that there should be a saving on the superstructure, lower storey.

C.W.B.S.
14-10-97.

P.S. Since the above note was written, the accompanying tabular statement has been prepared to facilitate reference.

C.W.B.S.
28/11 97.

FOR ORDERS.

P. W. Secretariat.

C. No. 9191

Note by Budget Section.

Work Additions and improvements to the Collectors Office at Cuddalore.

Fund	Provincial	
Service Head	Civil Buildings	
Departmental Head	Original works	
Amount of revised Estimate ... ... Rs.	1.19.060	(original estimate was Rs 1.02,230)
Expenditure in previous year ... ,,	89,617	
Allotment in current year ... ,,	23.582	
Balance required to complete ... ,,	5.861	if the revised estimate be sanctioned.
Total Rs ...	1.19.060	

Note of available Funds.

The Provincial reserve with the Government is only Rs 6.074.

Note by Budget Section.

Public Works (1897) Department.

CURRENT No. 10357

Order

From The Supdg Engineer
5th Circle

No. 98W/c

Dated 16th October 1897

Received 19-10-97.

Enclosures

Spare copies

SUBJECT.

Collector's Cutchery at Cuddalore.

Informing that the original Estimate for the additions & Improvements to the – was prepared by the late Consulting Architect to Govt.

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

5 8

No. 98 M/c

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Camp Chennambakkam ~~Chepák~~, 16th October 1897.

From
Colonel C. C. Rawson R.E.
SUPERINTENDING ENGINEER, V CIRCLE,

To
THE Chief Engineer
P. W. Department.

Enclosures.

SIR,

With reference to your Memo No. 1657 D dated 12th October 1897 I have the honour to inform you that the original Estimate for the additions & Improvements to the Collector's Cutcherry at Cuddalore was prepared by the late Consulting Architect to the Government Mr. H. Irwin C.I.E. as I have no idea what information regarding site, rates &c
? was ? before
were befor Mr. Irwin when he prepared the

500—25-2-96.

the Estimate; I can form no opinion regarding the Estimate.

I have the honour to be
Sir
Your most. Obdt. Servt.
C. S. Lamme Col. R.E.
16/10/97
Supy Engineer 5 Circle

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

To

THE

Dated }
Recd. } 189

ENCLOSURES.

No.

Public Works (189

Order

No. 639C

Government of Madras.

Public Works DEPARTMENT.

MEMORANDUM.

Dated Madras, 3 ~~January~~ Feby 1898.

With reference to ~~his~~ letter from the S.E. V Circle No 534 W dated 19th December 1897, returning the revised estimate for the Collector's office at Cuddalore, the undersigned has the honour to request ~~he will~~ him to explain why a new item "Terrace Roofing" (item 67(a) in the comparative statement) amounting to Rs. 617 has now been introduced and why the amount of "Contingencies" (item59) has been increased from Rs. 1,500 to Rs. 2,588.

L

1.2.98
DEW

7/B

The Superintending Engineer V Circle.

4/2/98
5/2/98

P. W. 41.
1,000—14-10-97.

" [illegible] d/ 6-8
" 5124 W d/ 12-3
" 503 W d/ 17-

Public Works (~~1898~~ 1897) Department.

CURRENT No. 100

Order

From The Supg. Engineer,
5th Circle

No. 534 W

Dated 19th December 1897
Received 6. 1. 98
Enclosures 15
Spare copies

D.W.
For orders.
Please see memo
no 5179 C d/ 1-12-97
& notes attached
thereto
6-1-98

T Please get this file
ready to show D.W.
7-1

SUBJECT.

Collector's Office
at Cuddalore —
Resubmits duly
altered the revised
estimate for additions
and improvements to
the —

BACK PAPERS.		FURTHER PAPERS.	
No.	Date.	No.	Date.

Urgent

No. 534 W 6 P

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepák, 19th December 1897

From
Colonel C. Rawson R.E.
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer,
P.W. Department.

SIR,

With reference to your memorandum No. 5179C dated 1st Instant, I have the honor to resubmit duly altered the revised estimate for additions and improvements to the Collector's Office at Cuddalore.

Enclosures.

- 1 Report
- 1 Detailed estimate
- 3 Data
- 1 comparative statement
- 7 Agreements
- 1 copy of Exe. Engineer No. 648 S.E. dated 8 September 1897.
- 1 copy of note

I have the honour to be
Sir
your most obedt Servant.
C. Rawson
19/12/97 Colo. R.E.
Supdg Engineer 5 Circle

Bh
18/12/97

500—31-3-97.

With reference to your memorandum No.
5119 dated 1st August, I have the honour
to resubmit duly altered the revised [illegible]
for additions and improvements to the Col-
lector's office at Cuddalore.

Ch. W.

Lr. 1918 C
29-3-98

In re submitting revised estimate for Cuddalore Collector's cutchery omit the items for improving the adjacent buildings (Dist. Munsiff's Court I think it is) & making them outwardly of the same design as the new building. I propose to omit this works as needless expense.

21. 3 98

T.

~~For~~ immediate decision

CWS
21. 3. 98

Explained in person [illegible]
1. 3. 98

1289 W.

P. W. D.

1918 C of 29-3-98

Memo.

In returning the revised estimate for the Collector's cutcherry at Cuddalore, the undersigned has the honour to state that the Chief Engr. proposes to omit, as a needless expense, the items for improving the adjacent buildings so as to make them outwardly of the same design as the new building. The Supdg. Engr. is requested to report whether the whole of this work is covered by items 60 to 69 inclusive of the comparative statement, amounting in all to Rs. 3687 ; and whether

Es. I think ~~these~~ items
are the [illegible]. but
better refer it back
to [illegible]
& ask if they can
be eliminated —
they want
60 to 69
[illegible] item
mistaken

22-3

Rs 3687

CMY

1289W

P.W.D.

1918C of 29-3-98

Memo.

In returning the revised estimate for the Collector's cutcherry at Cuddalore, the undersigned has the honour to state that the Chief Engr. proposes to omit, as a needless expense, the items for improving the adjacent buildings so as to make them outwardly of the same design as the new building — The Supdg. Engr. is requested to report whether the whole of this work is covered by items 60 to 69 inclusive of the comparative statement, amounting in all to Rs. 3687/. and whether

31/3/98

INDEXED

all these items may
be eliminated from the
revised estimate.

2. If the work referred
to is not covered by the
items above named, the
Supdg: Engr is requested to
report exactly which
items relate to it, &
if the retention of any of
~~provisions in the~~ ~~same~~
~~estimate~~ them is considered
necessary, reasons should
be given –

25-2-98

Cir

CWSH
25/3/98.

I [illegible]
B.P.W.

Write S.S. V. circle
with 6 enclos. 30/3/98.

Public Works (1898) Department.

CURRENT No. 1459

Order

From The Supdg Engineer
5th Circle.

No. 113 W.

Dated 15th February 1898.

Received 16-2-98

Enclosures

Spare copies

W. for orders – apparently these items must be accepted as they represent work actually done. The ests for this work seem to have been very carelessly prepared.

S.R.O.M.
26/2/98

U.S. Send up the papers for sanction

[illegible]

on 2nd reminder [illegible]
CSS 24/2/98

SUBJECT.

Collector's Office
at Cuddalore

S.S. G.O.

Explaining the circumstances in which a certain new item was introduced and the amount for another increased in the Estimate for the –

639

B

BACK PAPERS.

No.	Date.
639 C	3-2-98
5179 C	1-12-97
1657 D	12-10-97
2510 C	14-8-95
2454 C	6-8-95
503 W	17-2-92

FURTHER PAPERS.

No.	Date.

No. 113 W

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepâk, 15 February 1898

From
Colonel C. C. Rawson R.E.
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer,
P. W. Department

SIR,

Enclosures.

With reference to your memorandum No. 639 C. dated 3rd Instant, I have the honour to state that the item "terracing" is put in because it was omitted altogether in the original estimate; the existing building has a tiled verandah, Elevation of building as sanctioned, shows a terraced verandah with a parapet wall &c. but the item "terracing" was omitted in the estimate.

The item "contingencies" is increased to cover the cost of the following charges alrea incurred.

(1) Erection of Engine and mortar mill and the extra cost of machine ground morta Rs 500

(2) Brick moulds – Rs 70

(3) Wages of a blacksmith for ten months employed for sharpening the cutting tools of bricklayers and various other jobs – Rs 200

(4) Excess over the normal cost of scaffolding materials which were purchased with the intention of doing the whole brickwork departmentally – Rs 200/.

Other petty items – Rs 118/.

I have the honour to be,
Sir,
Your most obed^t. Servant.

15/2/98
Colonel R.E.
Supt. Engineer, 5 Circle

15-2-98

Dw

Give orders
whether the
revised estimate
may now be
sanctioned

10.6.98

Public Works Department.

Current No. 4042
Letter No. 318 W
Dated 6th May 1898
From the Supt. Engineer V Circle

NOTE BY TECHNICAL SECTION.

Name of work Collectors office at Cuddalore.

With reference to this office Memo No. 1918 C dated 29th March 98, the S.E. V Circle, resubmits the revised estimate for constructing Collectors office at Cuddalore and states that items for improving the adjacent buildings viz. 60 to 69 inclusive in the comparative statement may be eliminated and that some petty repairs would be required to the buildings costing about Rs 400 which sum could be met from savings on the item of "Contingencies". He further states that 70.000 bricks have been collected by the contractor for the work, these will have to be charged to the work & their book value gradually covered by issues to other works.

By eliminating items 60 to 69 inclusive, a saving of Rs 1983 will be

P. W. 60
200–30-9-97.

be affected, less value of 70,000 bricks, stated to have been already collected & instead of charging the value of bricks to the work, it is submitted, that they be borne on "stock" & issued to other works as required.

15/6/98.

P.S. The comparative statement has been altered in pencil & the amount of excess reduced from Rs 19447 to Rs 15462, owing to the omission of items 60 to 69 inclusive

15/6.98

T/ Items 60 to 69 can be eliminated, Rs 400 added for petty repairs for out-buildings, & bricks collected charged to stock [illegible] a draft sanctioning estimate, and including a note providing for these alterations & giving a concise explanation of the causes of excess over the original estimate [illegible]

12-6-98.

Dr/ Attended to vide separate note attached.

6.7.98

Current: 18042

Collectors office at Cuddalore

Dr/

The items 60 to 69 have been eliminated from the comparative statement vide letter No. 318W dated 6th May 1898 from the S.E. V Circle, and Rs 400 added for petty repairs to out-buildings. By these alterations the amount of excess has been reduced from Rs 19,447 to Rs 14,160 which will then be 13.85% over the original estimate of Rs 102,230 sanctioned in G.O. No. 582 W dated 12th March 1895.

The causes of the excess are condensed as under:-

4 (a) Due to insufficient provision ~~in original estimate~~ for demolition of buildings Rs ~~1500~~ 1370
1 (b) to increase in rates — 10,515
5 (c) to additional works since approved by W — 1073
3 (d) Error & omission in original estimate — 2254 140 23,94
2 (e) Deviation in materials of construction — 2680

Total Rs 18042

Total Rs 18042

Deduct savings due to the omission of items 60 to 69 & to lower tendered rates, also to saving in Contingencies } 3882

Total excess Rs 14160

Item (a) The lump sum provision of Rs 150 allowed for demolishing masonry was found to be inadequate. actual cost of demolition is now entered, also for the sub head "Lightning Conductor".

Item (b) The increase in rates are on the following sub heads.

(1)	Excavation of foundations	Rs 4.9..	against	Rs 4....	
(2)	Earth filling basement	4....	do.	2....	
(3)	Brickwork in foundations	21.4...	do.	19....	Rate of Dist Schedule of '95
(4)	do. in superstructure	23.12.. 27.2..	do.	20....	Dist Schedule a blank as regards these items
(5)	do. upper floor	24.12..	do.	21....	
(6)	Brick parapets	28....	do.	22....	
(7)	Archwork in mortar	30.2..	do.	22....	
(8)	Terrace roofing	26.4..	do.	22....	Rate of Dist Schedule of '95
(9)	Cuddapah slabs cornice	34.12..	do.	25....	Dist schedule a blank as regards these items.
(10)	Cuddapah slab flooring	37.8..	do.	24....	
(11)	Painting	3.2..	do.	2.8..	

~~No 8 is due to enlarged section of facade~~

Nos. 1 & 2 are due to earth slipping during rains and to watering & ramming, No. 3 is due to the piece workers tendered rate of Rs 19 being increased to Rs 21.4.. to compensate him for grinding mortar by steam & to the erection of pug & mortar mills, No. 4 is due to the bricks supplied by the contractor being inferior for face work. the latter work was done departmentally with specially prepared bricks at Rs 27.2.., the contractor being allowed to do the interior work at Rs 23.12.. which rate provides for grinding mortar by steam &c., Nos. 5, 6 & 7 are due to the above causes (3 & 4) except that Rs 24.12.. is allowed for item 5 ~~being~~ the usual increase of Rs 1 for the upper floor. Nos. 8, 9, 10 & 11, the original rates provided for these items were found to be far too low. the rates now entered are reasonable.

Item (c) The following are the deviations & additions approved in Memo No. 2454 C dated 6th Aug. 95 (1) Increase in width of foundation from 3'10½" to 5'10½", (2) provision of damp proof course of 3/8" asphalte (3) wooden clock-case to police room, (4) additional steps in front of building and (5) two additional doors to retiring rooms as ordered in G.O. No. 582 W dated 12th Mar 95.

Item (d) is due to the entire omission of flooring the verandahs and to errors in the measurement of ~~[illegible]~~ the subhead painting also to the omission of whitewashing now ~~[illegible]~~ introduced

introduced to improve the appear:ance of the building and further to increasing the thickness of archwork from 1'1½" to 1'6". and to an addition of Rs 140 to the lightning conductor

Item (2) is for deviation in the sub head concrete for founda:tions from ordinary concrete to partly ordinary lime mortar concrete & partly to surki mor:tar concrete; also from plastering exterior face of walls with cement mortar to pointing with tar & asphalte composition.

W has gone into this sub:ject at length vide his notes on the comparative statement prepared in this office flag Q.

6.8.98.

ASK
9-8-98.

Public Works (1898) Department.

CURRENT No. 4042

Order

From The Supg Engineer
5th Circle

No. 318 W.

Dated 6th May 1898
Received 9.5.98
Enclosures 6
Spare copies

SUBJECT.

Collectors Office at Cuddalore.

Re-submits revised Estimate for the – and States that items 60 to 69) inclusive may be struck out.

o L 5277

BACK PAPERS.

No.	Date.
1918C	29-3-98
639C	3-2-98
5177C	1-12-97
2576C	30-7-94
1657D	12-10-97
3075C	5 ~~20-7~~-97
2510C	14-8-95
2454C	26-8-95
508W	17-2-92
735W	17-3-86

FURTHER PAPERS.

No.	Date.

200-19 1.98.

No. 3187W.

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Chepâk, 6th May 1898.

From
Colonel. A. W. Smart. R. E.
SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer
Public Works Department.

Enclosures
1. Comparative statement.
1 Report.
1 Detailed estimate
3 Detailed Datas.

SIR,

In resubmitting the revised estimate for the Collector's Office, Cuddalore and connected documents received with your memorandum No. 1918 C dated 29th March 1898, I have the honour to state that items 60 to 69 inclusive may be struck out.

2. Some sundry repairs are required for the adjacent buildings but the cost which will amount to about Rupees 400/ will be met from savings under Contingencies.

3. The contractor has already collected 70,000/ bricks (not yet paid for). These bricks will have to be charged to the work and their value recovered a[s]

they

they can be used up on other works.

I have the honour to be,

Sir,

Your most obedient servant

Colonel R. E.

Superintending Engineer 6th Circle.

5.98

140