M.R.O. 1—10,006—28-2-50.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No. 2706 Press

B.P. No. Mis.

66-67-68.

Dated 5. 11. 1873. 195=.

Not to be folded or roughly handled

Read the following papers:—

No. 66. From Major R. F. OAKES, R.E., District Engineer, Tanjore, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Tanjore, 4th September 1873, No. 591.

With reference to the estimates for the Vennaur regulators, sanctioned in G. O., No. 2,072, dated 29th August 1870, I have the honour to inform you that all but the Vettaur regulator are likely to be completed within the estimates. The excess on that work is likely to be Rupees 7,866, as shown in the enclosed comparative statement†; the marginal remarks in which explain the causes of excess and saving on all items, but the shed and the cut-stone work.

Enclosures five, A, B, C, D, and E.

	Rs.
Vettaur	87,810
Paumainyaur and Coriyaur	65,775
Paundaviyaur and Velliyaur	43,655
	*13,955

* Provided from Local Funds.

† E.

2. The estimate provided an item of Rupees 600 for a shed, 30 feet×16 feet, without verandahs; but at the Vettaur head a shed, according to the enclosed plan‡, has been constructed at a cost of Rupees 2,730. The costliness of the building is due to the deep foundations it was found necessary to put in, as the building was placed on a spot which had been artificially raised, and to the use of teak-wood doors and windows and bressummers. The roof consists of palmyra rafters and reepers and flat and pan-tiles. The building is altogether far superior to what it need have been, and appears to have been sanctioned by Captain Montgomerie, *i.e.*, the design was made by him, and the plan was handed over to the Supervisor without any estimate.

‡ A.

3. When the original estimate for the regulators was submitted, the shutters to be used were not decided upon; the Chief Engineer for Irrigation having disapproved of the use of baulk-shutters, and having directed that Rupees 250 per shutter should be provided for shutters which he purposed to design. The estimate had provided for a facing of stone, 6 inches in thickness, for the piers, etc.; but on receiving the design of the shutters, I deemed it proper to increase the thickness of the facing round the grooves to 9 inches, and to provide bonding stones across the piers in connection with the grooves. This alteration raised the quantities of stone required as per margin; but they did not include the uncut portions of the bond stones. This was explained to the contractor, and he was provided with statements for each work similar to that enclosed§; Rupee 1 per cubic foot being allowed for

Paragraph 17 of No. 1,235 of 24th January 1870, in G. O., No. 1,144, 29th April.

—	Stones.	
	Original Estimate.	Revised Estimate.
§ B.	C. ft.	C. ft.
1. Vettaur	12,570	15,357
2. Paumainyaur and Coriyaur	7,480½	9,044½
3. Paundaviyaur ...	2,764	3,983
4. Velliyaur	2,152½	3,079½

the cut-stone. I must mention here that provision was not made in the estimate for stones in connection with the grooves through the arches to form the voussoirs from which the brick-arches should spring; the addition for these stones is, however, small, being as per margin.

	C. ft.
(1.)	115⅞
(2.)	54
(3.)	62½
(4.)	54[illegible]

4. During the progress of the work, it would appear that the contractor complained that the quantities entered in the contract did not amount to the quantities of stone he had to provide according to the statements* furnished to him (of this I must observe he was perfectly well aware when he took the contract), and consequently the quantities as given in B were calculated; and at the same time he was promised† that the rate should be increased from 1 to 1¼ Rupees per cubic foot. The quantities as thus calculated, added to the stone required for the voussoirs, brought up the total quantities for the works to the amounts noted in the margin.

*B.

† C, copy of Major Hasted's Memorandum, No. 168, 7th June 1872.

	C. ft.
(1.)	17,344⅞
(2.)	10,033⅞
(3.)	4,345¼
(4.)	3,323

5. Notwithstanding this increase both in quantities and rate, the estimates for the works other than that for the Vettaur regulator will not be exceeded, the Paundaviyaur and Velliyaur regulator being regarded as one work.

6. *The rate provided*, viz., 1 Rupee per cubic foot, was for stone wrought and put up; of it the contractor was to get 15¼ Annas, the building in being executed by the Department Public Works, but eventually the contractor undertook the building in of the stone.

7. The calculations of the quantities of the stone, including bond stones, and of the extra dimensions to be provided to admit of the curved stones for the cut-waters being charged as cut-stone, is not unlike paying for wood in the log at rates for wood wrought and put up and according to the scantling of the original logs. I would, however, suggest that Government should pass the rate and quantities given in the margin of paragraph 4; because the rate and amount may be said to have been promised to the contractor by Major Hasted, and there appears to be but little doubt that the contractor cannot have made much, if anything, by the contract; he, of course, says he has lost considerably. Up to the 10th June the contractor had actually supplied the quantities of stone noted in the margin; all but 517 cubic feet of which had been put into the works, while the figures in red give the quantities he states he actually conveyed to the different works.

(1.)	14,270	26,804
(2.)	7,458 ¼	10,657
(3.)	3,555	
(4.)	1,810½	6,781
	27,093¾	44,242

8. I have not received a reply to my letter asking the Agent of the Great Southern of India Railway to verify the statements of quantities carried by rail, viz, 33,592 cubic feet, which is probably correct; but even this quantity is 24 per cent. in excess of the quantity put into the work. The balance, 10,659 cubic feet, is said to have been obtained from the fort at Tanjore and from mundapums

purchased at Needamungalum, etc.; and if correct, the total quantity of stone carried to the works is nearly 64 per cent. above the quantity wrought and put into them. This shows how foolishly the contractor has acted. He should, of course, have had the stone cut to very nearly the dimensions required, as given in B, at the quarry at Caroor, so as to save the cost of conveyance both by rail and road.

9. The contractor has been over-paid to some extent owing to the fact that for some time the Range Officers paid for the stone according to the invoices of the railway, not recognizing the fact that the stone as brought down was not cut-stone, but stone so rough that, if the contractor's accounts may be accepted, about two-fifths was waste; and owing also to the fact that the contractor prevailed upon Captain Montgomerie to allow the Range Officers to pay the stone-cutters engaged in fitting the stone on his account, and, as he did not supply stone sufficiently rapidly to keep the stone-cutters fully employed, there has been considerable waste in labour. The loss, however, will, of course, fall upon the contractor; the object of his proceedings apparently being to show how costly the cutting and fitting of the stone is with a view of getting an increase in the rate. As I declined to recognize his loss in this respect as a legitimate one, and declined to recommend an increase in the rate, which I consider ample, and further declined to allow the Range Officers to pay for the stone-cutters, the contractor has stated that he does not wish to provide any more stone for the regulators. He has already supplied more than he originally contracted for, and the stone he has collected he will be allowed to convey to the works, so as to reduce his balance; and any amount then due by him, he will have to pay, or it will be deducted from sums due to him for other works. The contractor's letter on the subject is enclosed.

(1.)	Rs. 948
(2.)	,, 110
(3 & 4.)	,, 600
	Rs. 1,653

Some stone supplied since this account was made up.

D, to be returned.

	Rs.
Balance on 31st March	3,729
Allotment for 1873-74	460
	3,269
	7,866
Total...	11,135

10. Under the circumstances, I request that Government will sanction Rupees 7,866 for the Vettaur head work, and allot Rupees 11,135 for the work in 1873-74, as the allotment in the budget of 1873-74 was only Rupees 460.

11. The allotment for the Paumainyaur and Coriyaur head works in 1873-74 is Rupees 10,840, while the balance on the estimate on the 31st March was Rupees 18,778. I beg that the difference, viz., 7,938, may be allotted for 1873-74.

12. For the Paundaviyaur and Velliyaur regulator the imperial allotment all but a rupee was expended in 1872-73, and the work is being completed from the allotment from Local Funds. The unexpended balance of 1872-73 has been applied for from the Local Board.

13. The excess of 7,866 on the estimate for the Vettaur regulator is about 9 per cent., but it is less than 4 per cent. if calculated on the project for the Vennaur regulators, which amounted to Rupees 2,11,195.

No. 665.

No. 67. *Note by the Chief Engineer for Irrigation.*

THE District Engineer, Tanjore, reports that of the four regulators under construction at the heads of the principal branches of the Vennaur, on an estimate of Rupees 1,97,240, sanctioned* from Loan Funds, one, the Vennaur-Vettaur regulator, will cost Rupees 7,866 more than its estimate of Rupees 87,810, while no excess is expected on the other works.

* G. O., No. 2,072, dated 29th August 1870.

2. The causes of excess on the Vennaur-Vettaur regulator are fully explained by the District Engineer. Increase in quantity and rate for cut-stone work is the principal item of increase, viz. :—

	Estimate.		Actual.	
	Cubic feet.	Amount.	Cubic feet.	Amount.
		Rs.		Rs.
Vennaur sluices	7,815	7,845	10,843	12,199
Do. wings and abutments	140	110	180	202
Vettaur sluices	4,445	4,445	6,141	6,909
Do. wings and abutments	140	140	180	203
	12,570	12,570	17,344	19,513

or an increase of nearly 38 per cent. in quantity, which is due, first, to Major Oakes having thought it desirable to increase the thickness of stone allowed for the facing at the shutter-grooves,—an alteration which was, it is thought, not absolutely necessary; and, secondly, to Major Oakes's successor having been led by the contractor to think that he had to provide a good deal of stone for which he was not being paid at all; the arrangement being apparently that Major Oakes took the dressed part of each stone, and allowed 1 Rupee a cubic foot for it, with nothing for the stone behind this line, while Major Hasted took the whole stone and treated it as if it had been all cut-stone. It may be noticed that it would have been better had it been clearly shown in writing that the rate and quantity allowed in the contract was intended to cover the whole of the stone both dressed and uncut; but more than one officer of experience is of opinion that the increased rate of Rs. 1-2-0 is not too high, even with the altered mode of measurement, and consequently the excess on this work may be passed. It will be observed that the contractor is desirous of relinquishing his contract, he having, partly at least by the error of carrying irregularly shaped stone long distances by railway and road, according to his own account, lost considerably thereby. This relinquishment, if permitted by the District Engineer, with whom the matter entirely rests, will not occasion any loss.

3. The only other item of excess requiring special notice is that occasioned by the substitution of a bungalow at a cost of Rupees 2,730 for a plank-shed, for which Rupees 600 were allowed. It would seem probable that Captain Montgomerie, the officer apparently responsible for this alteration, thought that some evidation from a rectangular room, 30 × 16, with one door and one window would

be allowable, but he committed several errors : first, it would seem in not making any estimate for the new design, whereas an accurate estimate, having reference to the actual site, should have been prepared; secondly, in not asking for the sanction of the proposed alteration, which no doubt, upon proper explanations, would have been readily accorded. It was desirable that there should be an inspection bungalow here; but it should not have been built under the name of a plank-shed. The cost was reasonable under the circumstances.

4. On many other items of the estimate there has been more or less excess. The foundations have generally been laid at a lower level than was provided for. The site was altered to about one-third of a mile lower down the rivers to obtain a better lead into the Vettaur, and this occasioned considerable increase of expense for earth-works, the Vettaur having now a new head. On the other hand, probably some of the saving in baling is due to this alteration, for the old head or course of the Vettaur was left open, and the water-level was thus kept very low, and all the foundations could be gone on with at once. The total saving in baling was Rupees 5,037.

5. It does not at present appear to be necessary to do more than record these circumstances. If no further excess be incurred, the expenditure can be passed by Government, it being within 5 per cent. of the sanctioned estimates, without reference to the Government of India.

G. O., 23rd September 1872, No. 2,249.

FORT ST. GEORGE,
20th September 1873.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 68. ORDER THEREON, 5th November 1873, No. 2,706.

IRRIGATION, No. 5.

RECORDED. It is observed that the excess expenditure on the Vennaur regulators has, with one exception, been satisfactorily accounted for. The substitution of a bungalow for a plank-shed, at a cost of between four and five times the provision made in the estimate for this building, which appears to have been authorized by Captain Montgomerie, when Officiating Superintending Engineer of the late 6th Division, was a very irregular proceeding, and, as pointed out by the Chief Engineer for Irrigation, the proper course would have been to have asked for sanction for the alteration, which, as the building will be of permanent utility as an inspection bungalow, would readily have been given. Had not the utility of an inspection bungalow been affirmed by Lieutenant-Colonel Mullins, Captain Montgomerie would have been called on to make good the excess expenditure incurred on his responsibility.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the District Engineer, Tanjore.
,, Officiating Controller of Public Works Accounts.
,, Chief Engineer for Irrigation.
,, Captain P. Montgomerie, R.E.

Exd. F. R. Bantleman.

Spare Copies

[F T Form No. 34.]

For Reg No

MEMORANDUM.

Requested for reference the under-mentioned papers :—

Comparative statement* of the Neumar Regulators referred to para 1 of the Govt. endt letter printed with G. O. No. 2706 dy 5 ~~Sept~~ November 1873.

Dyr Hamilton
Manager

* marked E

Office of the Chief Engineer for Irrigation,
16 Sept 1880.

To The ~~Registrar~~ Manager of the Govt Record Dept

Returned to Govt Off 17.9.80

1

5

MEMORANDUM.

REQUESTED for reference the under-mentioned papers

Original, Enclosures submitted
with Note from the Ch. Engr. for Irrigation
No. 665 of 26 Sept/73: returned with
his No. 2706-5 November/73.

OFFICE OF THE CHIEF
ENGR. FOR IRRIGATION,
P. W. Department,
18—11—1873.

D. R. Hamilton
Head Clerk.

To
The Registrar of the Orders

15 Encl. Copy filed herein

Note by the Chief Engineer for Irrigation.

The District Engineer Tanjore reports that of the 4 regulators under construction at the heads of the principal branches of the Vennaur, on an estimate of Rupees 197,240 sanctioned from Loan Funds, the Vennaur-Vettaur regulator will cost Rupees 7,866 more than its estimate of Rupees 87,810, while no excess is expected on the other works.

*G.O. No 2072 dated 29th August 1870.

2 The causes of excess on the Vennaur-Vettaur regulator are fully explained by the District Engineer. Increase in quantity and rate for cut stone work is the principal item of increase viz:

	Estimate		Actual	
	Cubic feet	Amount	Cubic feet	Amount
Vennaur sluices	7845	7845	10,843	12,199
do wings & abutments	140	140	180	202
Vettaur sluices	4445	4445	6141	6909
do wings & abutments	140	140	180	203
	12,570	12,570	17,344	19,513

or

or an increase of nearly 38 per cent in quantity, which is due first to Major Oakes having thought it desirable to increase the thickness of stone allowed for the facing at the shutter grooves, an alteration which was, it is thought, not absolutely necessary; and secondly to Major Oakes' successor having been led by the contractor to think that he had to provide a good deal of stone for which he was not being paid at all, the arrangement being apparently that Major Oakes took the dressed part of each stone and allowed 1 Rupee a cubic foot for it, with nothing for the stone behind this line, while Major Hasted took the whole stone and treated it as if it had been all cut stone. It may be noticed that it would have been better had

had it been clearly shown in writing that the rate & quantity allowed in the contract was intended to cover the whole of the stone both dressed & uncut, but more than one officer of experience is of opinion that the increased rate of Rupees 1-2-0 is not too high even with the altered mode of measurement, and consequently the excess on this work may be passed. It will be observed that the contractor is desirous of relinquishing his contract, he having, partly at least by the error of carrying irregularly shaped stone long distances by railway & road, according to his own account lost considerably thereby. This relinquishment if permitted by the District Engineer, with whom

whom the matter entirely rests, will not occasion any loss.

3. The only other item of excess requiring special notice is that occasioned by the substitution of a Bungalow at a cost of Rupees 2750 for a plank shed, for which Rupees 1500 were allowed. It would seem probable that Captain Montgomerie, the officer apparently responsible for this alteration, thought that some deviation from a rectangular room 30 × 16 with one door & one window would be allowable, but he committed several errors; first it would seem in not making any estimate for the new design, whereas an accurate estimate, having reference to the actual site should have been prepared; secondly in not asking for the sanction of the proposed alteration, which no doubt upon proper explanation would have been readily accorded. It was desirable that there should be an inspection Bungalow here, but it should not have been built under the name of a plank shed. The cost was reasonable under the circumstances.

4. On many other items of the estimate there has been more or less excess. The foundations have generally been laid at a lower level than was provided for. The site was altered to about ⅓ of a mile lower down the rivers to obtain a better lead into the Vettaur, and this occasioned considerable increase of expense for earthwork, the Vettaur having now a new head. On the other hand probably some of the saving in baling is due to this alteration for

for the old head, or course, of the Vittaur was left open, & the water level was thus kept very low, and all the foundations could be gone on with at once. The total saving in baling was Rupees 5037.

5 It does not at present appear to be necessary to do more than record these circumstances; if no further excess be incurred, the expenditure can be passed by Government, it being within 5 per cent of the sanctioned estimates, without reference to the Government of India.

G.O. 23rd September 1872 No 2249

Fort St. George.
20th September 1873.

Edwd Ellis Lt Col R.E.
Chief Engineer for Irrigation

To
The Secretary to Government
P.W.D.

cut Flow from 1 Rafter to Outside
foot and also to measure up the Batten
foot in, as headers, for which at present
no

P. W. 1873 Depart.
Prov. Govt. Engineer
Letter No. 3254
The Chief Engr.
for Inspector
The Secretary
Govt P.W.D.
No. 665
Dated 20th
Rec'd 24th Oct 1873
Reply
Encl
Noted in the
Except on the
Veranda. Letter
replied to
Communicated Architect
Public Works
No. 2706. 5th Nov 1873.

No 61

Memo of Stones required for facing &ca for Vennaur and Vettaur Dams

Remarks

* The Outer face of these Stones & 6" into the face need only be dressed.

× These Stones must be ¾ foot broad in the rough to admit of the Curve of the Cutwater being cut from them giving a facing of 6 inches when dressed — The back part of the Stones beyond the 6 inch facing need not be cut away or dressed but must not be thicker than the dressed portion of the Stones or the Courses will not lie evenly on one another.

	5¼ × ½ × ¾	6 × ½ × ¾	3½ × ¾ × ¾	3¼ × ¾ × ¾	3 × ¾ × ¾	1½ × ½ × ¾	1½ × ½ × ¾	3 × ½ × ¾	3¼ × ½ × ¾	2¼ × ¾ × ¾	1½ × ½ × ¾	1⅚ × 1 × ¾	2¾ × ¾ × ¾	2¼ × ½ × ¾	2½ × ½ × ¾	2½ × ¾ × ¾	1½ × ¾ × ¾
For Pier facing																	
No. 1																	
For Grooves																360	1440
Facing to Pier												*	×	900	450		
Do to Cutwater											o	225	450				
Bonding stones											900						
No. 2																	
For Grooves										720							1440
Facing to Pier							225	ϕ 225	225				×	225	225		
Do to Cutwaters													450				
Bonding Stones											o 1125						
For half Pier on [illegible]																	
No. 1																	
For Grooves																	96
Bonding Stones											o 80						
Face Stones						20		20									
Curves			20	20	20												
St. Stone in Wing		20															
No. 2																	
For Grooves										32							64
Bonding Stones											o 80						
Face stones							20	ϕ 20						20			
Curves					60												
St. Stone in Wing	20																
Total	20	20	20	20	80	20	245	265	225	752	2185	225	900	1145	675	360	3040

	1½ × ¾ × 1	2½ × ¾ × 1	2½ × ½ × 1	2¼ × ½ × 1	2¾ × ¾ × 1	1⅚ × 1 × 1	1½ × ½ × 1	2¼ × ¾ × 1	3¼ × ½ × 1	3 × ½ × 1	1½ × ½ × 1	4½ × ½ × 1	3 × ¾ × 1	3¼ × ¾ × 1	3½ × ¾ × 1	6 × ½ × 1	5¼ × ½ × 1
For Pier facing																	
No. 1																	
For Grooves	360	90															
Facing to Pier			90	180	×	*											
Do to Cutwater					90	45											
Bonding stones							o 180										
No. 2																	
For Grooves	360							180									
Facing to Pier			45	45					45	ϕ 45	45						
Do to Cutwaters					× 90												
Bonding Stones							o 225										
For half Pier on [illegible]																	
No. 1																	
For Grooves	24																
Bonding Stones							o 16										
Face Stones										4		4					
Curves													4	4	4		
St. Stone in Wing																4	
No. 2																	
For Grooves	16							8									
Bonding Stones							o 16										
Face stones				4						ϕ 4	4						
Curves													12				
St. Stone in Wing																	4
Total	760	90	135	229	180	45	437	188	45	53	49	4	16	4	4	4	4

Remarks.

o Of these Stones only the face 6" broad and length of 6" on four sides will have to be cut the portion which bonds into the Brick work may be rough.

ϕ As one foot of these Stones forms a portion of the Cutwater facing the last foot in the Rough should be 7½" or 8" broad to admit of the Curve of the Cutwater being cut from them.

The facing to consist of Stones 1' & ¾' deep

2 Lower courses of facing 1' each	}	2'
10 above 9" — " —		7½
Facing of grooves above 6 courses 9"	}	4½
Do 2 " above 1'		2
Total		16 ft

For Flooring between Cutwaters	47 - 4' × 12½ × ½ =	1175
" Straight portions of Piers and 6" beyond	47 - 14 × 11 × ½ =	3619
At pier end of Piers	45 - 3' × ¾ × ½ =	50⅝
" " " ½ "	4 - 2' × ¾ × ½ =	3
		4847⅝ Cft

Sup g. Engrs Office 6th Dn
Tanjore 21 Dec 1870

[illegible] Capt R.E.
Sup g. Engr 6th Dn

B

Enclosure in Letter No. 591, dated
4th September 1873, from the
District Engineer Sirajgunj, to the
Secretary to Government E. B. &

C E 2/1473/73

Memo of Stones required
for facing 1st for Vent
and Vellaur Dams.

P.W.D.

5/11/73

5254

P. W. 1473/73

Ans. 6/11/73

P. W. D.

cut Stone from 1 Rupee to 1 Rupee
foot and also to measure up the betta
as headers, for which at present

No. 168.

Supdg Engr's office 6th Division.
7th June. 1872.

Memorandum. 14

The offg Supdg Engineer has received petitions from Contractor Sashiengar asking for increased rate for the Stone work done by him on the Vennaire Regulators and stating that it has cost him 1½ Rs per cubic foot, whereas by his Contract agreement he receives only 1 Rupee per cubic foot, and though not allowing that the increased rate is a correct one, from a careful examination of the work as actually performed, is convinced that the present rate is insufficient and that it is not to be expected that the Contractor can continue to work at that rate without incurring considerable loss, in fact, that it would be to Contractor's advantage to pay the fine & give up the Contract, rather than to complete the work. Under these Circumstances, and as the work has hitherto been well performed by the Contractor, the Officiating Supdg Engineer authorizes Range officers to raise the rate for cut Stone from 1 Rupee to 1 Rupee 2 annas per foot and also to measure up the betta stone put in, as headers, for which at present no

P. W. D.

no allowance has been made and to pay for it at the same rate. So long as it appears that by such increase the Estimate will not be exceeded. If, on Estimating the increased payments that will thus have to be made to Contractor it appears that the Estimate will be exceeded, a report on the subject should be made showing clearly by how much the Estimate will be exceeded.—

/Signed/ J. O. Husted Captain R.E.—
Offg Supg Engineer 6th D.—

To, The Officers in charge of
No. 1, 2 & 3 Ranges.—

True Copy forwarded to Contractor Sachiangan for information.—

/Signed/ J. O. Husted Major R.E.—
15th August 1872.— Offg Supg Engineer 6th D.—

/True Copy/

Major R.E.
District Engineer Tayabas.—

C.

Enclosure in letter No. 591, dated 4th September 1873. from the District Engineer Tanjore, to the Secretary to Government P.W.D.—

C No 3/1473/73

L. W. 5254/73

5/11/73 - N 65/4

Copy of Major Hearsey's Memo No. 168, dated 7th June 1872.—

I have built Piers, both at the work spot, and close to Railway Stations, under my own superintendence, according to the plan given to me by your honor. That although I have taken such pains, I see clearly that I have not given any satisfaction to your honor, which I entirely attribute to my misfortune and ill luck.—

In conclusion, I beg to state, that I have hitherto supplied and built in work stones more than the Quantity I have contracted for, viz, about 28000 Cft. and to arrive to this quantity, your honor must consider that I should have brought at least ¾ of the Quantity; more than I have built in; to this effect of course, there has not been, a smallest provision made in the Estimate, both in respect of Wastage, and Cartage; although it is impressed in your honors mind, that I have mismanaged the work from the beginning to end, because I have brought Rough Stones to the work, which I cannot help of doing so, yet I must still state, that through my experience in this work, that unless another 12000 Cub. feet of Rough stones is brought by Railway, the remaining 8000 cub. feet of Cut stone work cannot be completed, to Vennaur Regulators. And if I were to attempt to bring the above 8000 Cub. feet of cut stones by Railway, after dressing them according to the plan at the place where they are quarried (just as I have tried several times) it will cause greatest damage and breakage, with all my greatest care in packing &c.— and thus these stones, after wasting great deal of labor in dressing them, can only be used in bonding &c as has been the case

over.

over before; and also the work will be unnecessarily delayed, for want of proper shelter and my superintendence at the Rock.—

Under these circumstances and as I see clearly that your honor is not at all disposed to sympathize with me in the heavy loss I have sustained, by giving me some increased rate, taking my unfortunate case into your honor's just and favorable Consideration, I don't wish to be a Contractor any longer for the supply of the remaining 8000 Cub. feet of Cut stone you required to Vennaur Regulators.

On the whole, I must state that I have suffered a Considerable loss, to convince your honor about this in a better way viz by my accounts I am afraid your honor will not have any patience to go through, and therefore, I herewith beg to attach as a last remedy, a copy of Major Hastelo's Testimonials for your kind perusal.—

As for the stones I have on hand on this date, I will deliver them up wherever they are wanted, at any reasonable rate your honor may propose.—

I beg to remain,

Respected Sir

Your most Obed. Servant

M. Lashkeegar

Contractor

M.L.D.

Note.

The Cubic Yards of Excavation over the Estimate of the Water Commissioners Engineer has been added in a

Area which appears right on the Plan & Section but has not been

Cleared. The Trench Excavation being taken

Upon Section: — Cubic Yards & Earth not

Spread Thick. Also the Cubic Yards of the Excavation

with the exception of £7865=0=9½ is in addition of the Estimate

£7865=0=9½ in addition of the Estimate

Work with Stands in the Original Estimate

and Cubic Yards Excavation Superintendent Orders

Embank, Lay =

Cut Slope - Sand Marl & Stiff Clay 6942 - 5=1

Concrete in Culverts ——————— 443 = 10=0

Plastering by order of Chief Engineer — 3/4 = 11=1

Excess ——— 164 = 12=½

Total Excess £7,865 = 6=9½

If the Excess be Viewed in this light it will

be seen that Amount standing the Extra Depth

Which the Foundations were laid Below

Work, there would have been Handle any

Excess over the Estimate if the View Items

Has been Included in it =

Withdrawn Extra Cost of the

D.

Enclosure in Miller No. 2
dated 4 September 1873.
from the District Engineer
Jamjore, to the Secretary
Government P. W. D.

No 4/1477/73.

5254

P. W. 11.11./73.

5/11/73 - N. 66/7

Letter from Contractor
Sachiengan dated 9th
August 1873.—

Rowe

Sarkies Bruyer

Contractor Dy 11

Dated 9 August 73

Received 12 — do —

C. G. No 143. Dy 3/11/73

States that he is not
willing to undertake the
Supply of the 8000 C/F of
Cut Stone required for
the Kumaon Depôts
Stations.

Plank Sheds, I would remark that in the Sanjore District all the Plank Sheds attached to Irrigation Works where it is impossible to take tents, are used by the Engineering Establishment as Rest houses — In the present Estimate there is an item of Rs. 600 for this purpose but no Plan of the building accompanied it; as there was every probability of considerable Savings in several items of the Estimate which were actually effected as may be seen by a reference to the Comparative Statement, I did not consider that I was exceeding my powers in utilizing a portion of these Savings on a Shed which more fitted for habitable Structures than a plain rectangular building with one door one window —

The Chief Engineer for Irrigation in his Memo: says that it was desirable that there should be an inspection bungalow here, and that the

Thieves no sanction - Rest house as in Godavery & Kistna &

Cost of the present building is reasonable, and I trust that even if the G.G. exception that Sanction should have been applied for before utilizing the Savings, they will not disapprove of what I have done =

Elwin Hulme
Ex Engr

21st Oct 1873

No 270 Broad

Madras Fort St George
Lead Mines Working

Secretary of State for India (Ltr No 591 dd 4 Sep/73)
Govt of India (" 665 dd 20 do)

Recorded. It is observed that the excess expenditure on the Vermaur regulator has arisen chiefly from the exceptional difficulties encountered in the construction of the foundations, and that the substitution of a Bungalow for a plant shed, at a cost of between 4 & 5 times the provision made in the estimate for this building, which appears

Note as
Letters & Enclosures Regulators
Receiver Estimate

Secretary

appears to have been authorized by Captain Montgomerie, under whose operations the Engineer of the Line of Defence was a very irregular proceeding; & as pointed out by the Chief Engineer for Irrigation the proper course would have been to have asked for sanction for the alteration, which, as the building will be of permanent utility as an inspection Bungalow, would readily have been given.

Lyttelton 22/9/13

irregularity to the Public Works Department at Rs 2730. Deducting the pay heads only sanctioned, plinth-sheet 600 R. Chief Engineer Irrigation Works Department Lyttelton 22/9/13

Secretary Public Works Department

The Chief Engineer, Irrigation Works, Lyttelton.

Sir,

I have the honour to inform you that I have received a letter from Captain Montgomerie, Resident Engineer, Selwyn Irrigation Works, dated 22nd September, 1913, in which he reports that he has authorized the erection of a Bungalow for the Engineer in charge of the Selwyn Irrigation Works, at a cost not to exceed £600.

2. I have to point out that the Bungalow is not required for the Engineer in charge of the Selwyn Irrigation Works, but for the Engineer in charge of the Malvern Irrigation Works, and that the Bungalow is required at Darfield, and not at Lake Coleridge.

3. I have to point out that Captain Montgomerie has no authority to incur any expenditure in connection with the Irrigation Works without the sanction of the Public Works Department, and that he has exceeded his authority in this instance.

4. I have to request that you will inform Captain Montgomerie that he must not incur any expenditure in connection with the Irrigation Works without the sanction of the Public Works Department, and that he will be held responsible for any expenditure incurred by him in excess of the amount sanctioned.

I have the honour to be, Sir,
Your obedient servant,
Chief Engineer for Irrigation.

Lyttelton, 24th September, 1913.

21

Leave to write. I will not interfere in any penalty beyond censure in the case.

J. D.S.

22/10

Paper with the case. He might say, however, in a letter covering Capt. Montgomerie's that it was irregular that it appears from the letter of the Ch. Engineer dated 24th Sept. that an Inspector's Bungalow is required: & that Capt. M. was only authorized to incur expenditure under and to the amount specified above the £600.

Oct 17/13

Mis 5254+4973

Govt. of {1873} Madras.

PUBLIC WORKS.

To The District Engineer
Tanjore

Dated

Rec'd. Encl.

G. O 5 Nov. 1873 No. 2706.

Nos. 66 & 67/68

Vennaur Regulators.

Papers & letters on papers
relating to the excess
expenditure incurred
in the Regulating
works in the Tanjore
Dt.-