

Diary of the Superintending Engineer 4th 1863.

Division from 1st July 1863.

Month and Date
Where present How employed What works inspected

Under charge
what Officer

Remarks.

Statement of work done, what remains to be done, and what steps are being taken with respect to the several features of the Estimate for completing the communication between the Sea Customs and the approaches of the Madras.

Items of Estimate	Amount	Work done, remaining to be done If so and expenditure.	Amount
19 Stair wells built of brick in Chinnam	1197	This work has been completed at the estimated rate.	1197
41 D ^o built of Cubes made with hydraulic Cement	2747	38 Wells were completed at the estimated rate. The other 3 were not required.	2546
4 Small do do	176	These wells have been completed at the estimated rate.	176
6096 Cft ^o Removing soil from the space between the wells under the water level	381	5636 Cft ^o has been removed at the estimated rate (being all that was found necessary to be removed).	352 4
6096 Filling the spaces between the wells with concrete	1333 8	5136 Cft ^o Concrete was put in at a lower rate than the estimated one, in consequence of granite chips from the facing stone having been used.	1110 14
1748 Cft ^o Brick in Chinnam cubes to lay the 1 st row over the wells	400 9 4	1980 Cft ^o of Cubes were built at a cost of Rupees	405 13 7
Bricklayers & hire for conveying the Cubes to the work and laying them in hydraulic Cement	163 14	These Cubes were built in at a cost of Rs 185 10 (being an excess of altogether Rupees 26-12-3 which is covered by a saving on the brickwork for which the same sum was substituted with sanction of the District Engineer).	

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2620⁵/₈ Cft Large brick in cement 629 12 5 2506 Cft brick in cement has been built at a cost of Rupees 600 6 4

10832³/₄ Cft Large brick in Chunam 243 15 8 10727 Cft Large brick in Chunam has been built at the estimated rate 2123 10 (105 Cft remains to be completed)

4582⁵/₈ Cft. best stone 8010 8 1348 Cft. Cut stone facing has been built in at the estimated rate 1235 7009 Cft remains to be completed.

724⁵/₈ Cft. Casing stone 1449 10 8 248 Cft. of Casing stone work has been completed at the estimated rate 1476 496 Cft remains to be completed.

1593 Tons of rough stone to extend from ends of wings to bulwork 3584 4 597 Tons of Rough stone has been laid down (996 Tons remain to be laid down but all this will not be required)

202¹/₂ Tons rough stone in front of work 456 10 8 202 Tons Rough stone has been laid down and completed 454 8

48-8-5¹/₂ Teakwood beam 146 1 10 47-6-4¹/₂ Cft. Teakwood beam has been put up at the estimated rate 142 9

21120 Cft. Metalling with laterite gravel 633 9 7 This cannot be done until the points and switches are completed.

3326³/₄ Cft. filling with soil 826 10 8 2306 Cft. has been filled at a cost of Rupees 238 4 1000 Cft. remain to be done.

2000 Cft. Excavating foundations 107 8 2000 Cft. This work was completed at a cost of Rupees 106 8 6

Bailing 1000 The Bailing has been done at an expense of Rupees 903 15 9

Constructing Dams 2500

Constructing 60 false wells

with brick in Clay over all the wells 420

do do 18

2 Piles including Iron Chains 8¹/₂ Cts. Complete 200

Raising the custom House yard and Public Road 1500

Iron railings to the retaining wall similar to those on the Pier 350

6 Lamp Posts of Cast Iron with double globe lamps and burners Complete 600

385³/₄ Running of Railway 6482 13 4

385³/₄ do do Rail laying 570 8

515 Cft. Ballasting and levelling the Railway 1030

The dams have been constructed at an expense of 1610. The saving on this item was owing to so many difficulties as were anticipated not having been met with.

57 were constructed at the estimated rate 399. The other 3 were not required.

These 4 wells were constructed 18

This work has been completed 200

This work has been completed at a cost of Rupees 1408

This railing is under preparation.

These Lamp Posts have just been procured and shall be put up as quickly as possible

The railing has been laid with the exception of that forming the points and switches at the sides which has been deferred until the completion of the wing walls.

do do do 472 10 8

Ballasting do 837 10 6

Remaining to be done 192 5 6

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2 Buffers 1000. Enrolwood Buffers have been put down

Altering Archways &c. 1000. The necessary alterations have been made at an expense of Rupees 124 11 8

1 Turn table for Custom House Yard 2100. The turn table has been laid down and completed at an expense of Rupees 2080 8 3

One double purchase largest size goliath travelling Crab, with suitable shears complete, and capable of lifting 20 Tons with chains and blocks, four wheels, framed and pedestal, double action Cog wheels, pinion handles, tension bars &c. Complete. 2000. I was given to understand by Colonel Hitchens that the Pier Committee had decided nothing should be done regarding the Goliath Crab and heavy timber truck, until the crane should be put into working order. I subsequently learned that Mr. T. Smith, Chairman of the Pier Committee, on going home, undertook to do something about the goliath Crab.

One heavy timber truck calculated to carry not less than 20 Tons, complete with wheels, frame, breakers &c. 2000.

10. Open wagons calculated to carry 5 Tons each complete with wheels brake &c. 5000. 4 Open wagons have been supplied by the Railway Department (the others have not yet been ordered)

2 Covered do do 1400. 2 Covered wagons have been supplied by the Railway Department.

Cost of last bay of inshore extension of Pier including beams platform and wrought iron tie rods. 1120. This work has been completed

1500 Rft Cast iron flange pipes including fixing &c. 3000.

Draining, re-aligning drains both sides of Custom House yard and platform. 3000.

The flange pipes have been procured and are now being prepared to be laid down. The necessary T's and bands have not yet been received, but are daily expected. The Co's and have will have to be procured from England and have not been yet sent for, as the T's to which they are to be fixed have not yet been received from the railway Dept^o and the proper size cannot therefore be given; Cost not yet known.

These drains have not been altered as in consequence of sunk rails and traverses being done away with, it was not joined, necessary to alter them.

The total amount of the Estimate is Rupees 60860.

Expenditure up to 15th July 1863 38942 3

Remaining for disbursement 21917 12

which is more than ample to carry out the estimate.

Madras 31st July 1863

Signed / P. Walsh Sub Engineer.

A. B. Leach R.E. Sup^o Engr 2nd

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Division from 1st July 1863.

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Remarks.

N. B. In future Diaries Hope to be able to treat more fully of my Division generally. My Remarks this month are confined chiefly to the Presidency and the District of Madras. It will however be very difficult under the present system for a Superintending Engineer to make a lengthened tour and to become personally acquainted with his Division.

Pier under myself The Pier will be found treated of at a later date in the other buildings under Month.

Link. Pennycuik The same Remark applies to the Incorporating Mills.

Pier under myself The new portion is nearly ready to hand over but the Medical Officers have suggested improvements in the Piers which be carried out before the building can be occupied.

Captn. Pendergast The construction of the Upper Story to the Museum progresses well.

St. H. N. D. Pendergast The Mount Church has been made the subject of a special report.

St. H. Wood. I looked at some alterations proposed to the Military Hospital which appear necessary and examined the sites selected for various new Buildings to be erected at the Recruit Depot for the location of two Batteries of Artillery. I went with the Assistant Engineer in charge of the Fort works over the various propositions made by H. E. Sir Hope Grant for perfecting the Batteries on the sea face. The work will be undertaken at once.

St. H. N. D. Pendergast

The construction of an Upper Story to the Private Secretary's dwelling House makes good progress. This subject is touched upon at a later date.

Self

Enclosure no

Superintending Engineer

Diary for July 1863.

dated August 1863.

No.

1863/2/4/1/53

1863. 2/4/1/53

1760.

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			4	5	6

18 th	Madras	Office duties & inspection	New Prison in Fort. Minto		
19 th	d:	as per Column 4.	Fort Ditch &c		
(Sunday)	d:				

20 th	Madras & Chidambaram	Office duties & conferring with the Collector of Madras.	Collector's Cutcherry at Nones Garden		
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21 st	Madras & St. Thomas Mount	Office duties & inspection as per Column 4.	Drainage of Barracks at St. Thomas Mount		
		Sailed in the Evening for Pulicat.			

22 nd	Pulicat	Inspection as per Col 4 & returning to Madras.	Light house & Light house keepers dwelling. Burial ground.		
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23 rd	Madras	Office duties.	Heavy rain - no inspection.		
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24 th	d:	d:			
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25 th	d:	Office duties & inspection as per Column 4.	Government house Madras New Stables, New Road &c improvements - Fort Works Station Staff Officer's house. Civil Pay. Mr's Office. Madras Mend Quarters. Officer's Club & Cook house		
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Diary of the Superintending Engineer 4th Divⁿ 1863.

Month and Date 1863. Where present How employed What works inspected

July 6th Madras Landed from England
 7th d. Took charge of Office
 8th d.
 9th d. Office Work
 10th d. Office duties & inspections Pier Incorporating Mills as per Column 4. Sites for granary shed & dump off
 11th d. d. d. d. General Hospital. Pier Museum.
 12th Sunday / d.
 13th Madras & St. Thomas Mount d. d. d. Mount Church. Elliot's Hosp.
 14th Madras d. d. d. Fort St. George. alterations proposed by H. E. the C. in C. on the sea face. New Prison Mag.
 15th d. Office duties. Heavy rain. No inspections
 16th Madras & Quindry Office duties & inspections Quindry Govt House as per Column 4. additions and alterations.
 17th Madras d. d. d. Pier & Custom house junction

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Lieut H. Wood.

An experiment having been authorized as regards one of these Piers I went down to make myself acquainted with the subject on the locality.

A report on the Wind Mill will soon be forwarded. I went to Home's Gardens to confer with the Collector on the requirements of the District. Mr. Ellis is particularly desirous to obtain funds to complete the Latwade, Nagala-ppuram & Howiepett Road, also that between Uttakotta and Trivellore, and Trivellore & Ponnaiy. Latwade & Alor has but recently been made over to the Madras District, and

nothing hardly has been spent upon it for years the Collector is naturally desirous of opening up roads, and repairing the works of Irrigation. With this latter view we have agreed to transfer the greater part of the Trivellore allotment to Latwade & its neighbourhoods. The Collector wishes to make several salt roads, one from Vendalore to Covelong, Chayoor to Atcheravunk &c. The new Platform at Home's Gardens has turned out an utter failure.

M^r. Goodchap. The Collector's Butchery at Home's Gardens requires much repair. The old stables in front should be removed & rebuilt on a more convenient site.

The drainage of Barracks at St. Thomas Mount is a subject which will be brought before Government in a better forwarding the Estimates prepared by Assist. Engineer. While at Pulicat I inspected the House of Light House keeper which had been reported in a dangerous state & for the total reconstruction of which an Estimate had been prepared. This I think unnecessary. An

Estimate for what I consider needful will be forwarded shortly. The Light is not now exhibited at Pulicat pending certain repairs being effected to the building and the fixing of a new Light.

Lieut H. Wood

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26 (Sunday) Madras.

27th d: Office duties

28th d: d: & inspection as per Col. 4. Per.

29th Trivellore Conferring with the Collector of Madras & inspection as per Col. 4. Site for Cutcherry at Trivellore

30th Madras Office duties & inspections as in Col. 4. Incorporating Mills. Coal sheds. Water supply. Gun Powder Factory.

d: d: d: d: Fort Drains.

Supg Eng^r Office
4th Division
Madras
14th August 1863.

The new Quarters for married men in Fort St George progress favorably. Some arrangements must be made for more of the existing buildings to be vacated to allow of the Wash. house being erected.

The enclosed statement shows the progress that has been made in the several items of the Estimate for connecting the Pier with the Shore and Custom house.

At the request of the Collector I met him at Trivellore to look out with him for a good site for a new Tahsildar Cutcherry. One was selected North of the Town.

The road from the Railway Station to Trivellore about 1 1/2 miles is in capital order.

The work at the Incorporating Mills progresses satisfactorily. The Masonry is first rate. The coal sheds lately built are unnecessarily expensive.

The Fort Drains were inspected with a view to an early report being sent in by me.

Lt. H. Wood

Attilan Sent. Col. R. E.

Superintending Engineer 4th Division.

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Hof der August
Jann N. 23/44

The Superintending Engineer
4th Decr.

Dr. Of the Secretary to Government
Public Works Department

Dated 14th August 1863.
 Recd. 103
 6. 11. 1863

No. 1928.

No. 1928.
Library of the
Oberlin College
Division from 1st

July 1863. -
No 1201

Wm. D. Wright
Cass County, Mo.

18th August 1863. A. J. PC