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(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1669 Press / Mis.

579-580

Dated 25- 6- 1863.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 25th June 1863.

No. 579. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer 1st Division, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated Waltair, 2nd June 1863, No. 139:—

SIR,

1. On 12th March last, the Acting District Engineer, Ganjam, sent up a Plan and Estimate for rectifying the bed of the Chicacole river near the bridge of that town.

1 Plan.
1 Section.
1 Letter No. 491, dated 8th April 1863.
1 Estimate.

2. Captain Philipps purposed securing the bridge by making a cut through an accumulation of sand and also by blasting certain rocks which obstructed the water-way.

3. Colonel Ludlow, in a letter,* copy of which is annexed, and with whom I most fully concur, is of opinion that a cut would not attain the desired object, but that groynes or spurs of earth and brushwood would be preferable.

* No. 491, dated 8th April 1863.

4. In pursuance with this opinion, Captain Philipps has framed a revised Estimate for 2,900 Rupees, which I now, together with a plan and the correspondence noted above, submit for the consideration of Government.

5. The Reserve Fund is the source from which I propose that the amount, 2,900 Rupees, shall be obtained.

6. As the Judge at Chicacole had most obligingly allowed his prisoners to fill all the rocks near the bridge with jumper holes, and as the freshes in the Chicacole river may be expected before the end of the month, when these holes would be, for the most part, submerged, I have taken upon myself in anticipation of the sanction of Government to order Captain Philipps to expend from the General Funds of his District a sum not exceeding 1,000 Rupees, in blasting operations, and in packing the loose stone blasted under the arches of the bridge now in jeopardy, and hope that my having done this will be approved of by Government.

ORDER THEREON, 25th June 1863, No. 1,669.

No. 580. 1. In his letter of the 30th January 1863, No. 347, the Acting District Engineer, Ganjam, reported on certain damages which the Chicacole bridge had suffered from the extraordinary floods of 27th and 28th September 1862, and promised a further report and survey; and in his subsequent letter of the 12th March he explained the measures which he considered necessary for the safety of the bridge, and furnished an Estimate amounting to 3,550 Rupees of their probable cost.

2. One of the piers appeared to have suffered from the concussion of some floating body and the adjacent arches to have been slightly damaged. These damages would appear not to be of a serious character. A large sand bank seems also to have formed on the right side of the river above the bridge, obstructing the water-way on that side and causing a scour through the arches near the other bank. This scour is under some of the arches rendered more dangerous by the obstruction caused by masses of rock.

3. The remedies proposed by the District Engineer were the filling in of the cracks in the arches by cement, the removal of the sand bank by a long but narrow cut made through it, and the removal of the rocky obstructions by blasting, the stone so procured being used for flooring the vents through which the scour occurred.

4. The Deputy Chief Engineer was of opinion, in which the Superintending Engineer concurs, that the proposed cut through the sand bank would be ineffective for the intended object, which would be better obtained by means of vanganies or groynes.

5. The District Engineer has consequently prepared a revised Estimate amounting to Rupees 2,900, which the Superintending Engineer now submits for sanction with a recommendation for a grant of that amount from the Reserve Fund.

Proceedings of the Madras Government, Public Works Department,
25th June 1863.

6. The Government sanction the Estimate for execution out of the Reserve Fund. The Superintending Engineer will be answerable that the groynes are so placed as effectually to accomplish their purpose.

7. The Government approve of and sanction the proceeding of the Superintending Engineer reported in paragraph 6 of his letter in authorizing the immediate commencement of blasting operations.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

No 139

Superintending Engineer's Office
1st Division.
Waltair, 2nd June 1863.

Communication

From

Captain O. Chambers R. E.
Superintending Engineer 1st Div.
Rajapatam.

To,

The Secretary to Government
Public Works Department
Madras.

Sir,

Encl 4
1 Plan
1 Section
1 Letter No 491 dated 8th April 63
1 Estimate

On 12th March last, the Ag. District Engineer Ganjam, sent up a plan and Estimate for rectifying the Bed of the Chicacole river near the Bridge of that town.

2 Captain Philipps purposed securing the Bridge by making a cut through an accumulation of sand and also by blasting certain rocks which obstructed the water way.

+ No 491 dated 8 April 63.

3 Colonel Ludlow, in a letter, Copy of which is annexed, and with whom I most fully concur, is of opinion that a cut would not attain the desired object but that groynes, or spurs, of earth and brushwood would be preferable.

4 In pursuance with this opinion, Captain Philipps has framed a revised Estimate for 2900 Rs, which I now, together with a plan and the correspondence noted above, submit for the

A. Ag. District Engr Ganjam

the consideration of Government.

5, The reserve fund is the source on which I proposed that the amount, 2,900 Rs, shall be obtained.

6 As the Judge at Chicacole had most obligingly allowed his Prisoners to fill all the sacks near the Bridge with jumper holes and as the freshes in the Chicacole River may be expected before the end of the month, when these holes would be, for the most part, submerged I have taken upon myself in anticipation of the sanction of Government to order Captain Phillipps to expend from the General funds of his District a sum, not exceeding 1000 Rs, in blasting operations, and in packing the loose stone blasted under the arches of the bridge now in jeopardy, and hope that my having done this will be approved of by Government.

I have the honor to be
Sir
Your Obedient Servant

Col. Chambers Capt R.E.
Superintending Engineer 1st Div

May 1863 [illegible] Capt R.E.
Asst District Engineer

consideration of Government.

Rs 20 Feby/62 Cp. 332-333

Dated 19th June 1862
Chief Engr. 19th June
Chief Engr. 15th Ditto
Ditto
Secretary to Government
P.W.D.

Dated 2nd
Supdg. 3rd June 1863
Rec'd 10:31
No. 139
Encld 4
3 Estimates
Engr. 1st Circle

Submits a Revised Estimate for Rs 2900 for securing the Bed of the Chicacole River near Suburbs of Kasi Town, & proposes that the amount shall be obtained from the Reserve fund.

Also reports of his having accepted Capt Philipps to effect a Quantity of 1000 lbs of Blasting Powder at Rs 166-25 per Cwt

No. 579.

Received 19th January 1863 No. 20

Chicacole Division

Chicacole Circle

Chicacole

Revised Abstract Estimate No. 20 of 1863/64

Work.—Throwing up the Groynes in the Nagavalee River above the Chicacole Bridge, Blasting and Removing Rocks in Front Rear and under the Arches

Description of work.

Quantity		Rate	Amount	Aggregate Amount
	Construction of 2 Groynes or Bunds each 100 yards long			
3200	Cubic yards Earth work — Per Cyd —	″ 1 ″	200 ″ ″	
	Costs		40	
	Mats and Straw		30	
147	Squares of Puddling with Clay over bamboo mats Per ″	5 ″	45 12 ″	
	Total Rs. for 1 Groyne		315 12 ″	
	Ditto for 2 Ditto		631 4 ″	
	Construction of 2 Groynes or Bunds of boyd work			
1920	Cyds. Earth work — Per Cyd. —	″ 1 ″	120 ″ ″	
	Posts		30 ″ ″	
	Mats and Straw		25 ″ ″	
88	Squares of Puddling with Clay over bamboo mats Per ″	5 ″	27 ″ ″	
	Total Rs. for 1 Groyne		202 ″	
	Ditto for 2 Ditto			404 ″ ″
2548	Cyds. Blasting and Removing rocks in front Rear and under the arches of Bridge and laying with it a loose stone flooring under arches now in jeopardy	″ 10 ″	1592 10 6	1592 10 6
	Construction of a Masonry Revetment on the left approach of Chicacole Bridge			
5 7/16	Cyds. Rough stone work in Chunam — Cyd —	1 10	91 11 4	
7	Squares of Plastering in Chunam — Sq —	1 12 ″	12 4 ″	
390	Cyds. of Earth work — Cyd —	″ 1 ″	24 6 ″	
140	Cyds. of Turfing — Cyd. —	″ ″ 3	2 3 ″	
				130 8 4
	Contingencies —	5 ″ ″	″ ″ ″	139 13 2
	Total Estimate Rupees			2900 ″ ″

Ch. Chambers
Berhampore
May 1863

Supdg. Engr. Circle

C. Shippo Capt
Asst. Engr. Chicacole

Asst. Engr. Chicacole

Public Works Dept

1869

Proceedings of the Madras Government

Under date the 25th June 1865

Read the following letter from the Superintending Engineer 1st Division.

Submits a Plan and Estimate for Expenditure 2900 for protecting the Head of the Chicacole Anicut on the Bridge of that Name, and requests that the amount shall be obtained from the Reserve Funds. Also reports of his having ordered Captain Phillipps to expend a sum not exceeding 100 Rupees in clearing the Channel.

Madras 22nd June 1865
No 139

In his letter of the 30th January last the 3rd Salary District Engineer forwarded an estimate for Damages which the Chicacole Bridge had sustained from the extraordinary floods of 27th and 28th September 1862 and promised a further report and Survey

Recommended

WD

survey - and in his subsequent Letter of the 12th March he applied for the necessary which he considered necessary for the safety of the Bridge and furnished an Estimate amounting to £3,550 Rupees of the proceeds cash.

2. One of the Piers appeared to have suffered from the concussion of some floating body and the adjacent Arches to have been slightly damaged. These damages would appear not to be of a serious character. A large sand Bank seems also to have formed on the right side of the river above the Bridge obstructing the waterways on that side and causing a scour near the Arches near the other Bank. This scour is under some of the Arches rendered more dangerous

dangerous by the obstructions caused by masses of rock.

The remedies proposed by the District Engineer are the filling in of the cracks in the Arches by cement - the removal of the sand Bank by a long but narrow cut made through it - and the removal of the rocky obstructions by blasting the stones so procured being used for flooring the vents into which the scour occurred.

4. The Deputy Chief Engineer is of opinion, in which the Superintending Engineer concurs, that the proposed cut thro' the sand Bank would be ineffective for the intended object which would be better obtained by

by means of Vongamier v. Grey

5 The District Engineer has consequently prepared a revised Estimate amounting to Rupees 2900 which the Superintending Engineer now submits for sanction with a recommendation for a grant of that amount from the Reserve Fund.

6 The Government sanctions the Estimate for execution out of the Reserve fund. ~~[illegible]~~ The Superintending Engineer will be answerable that the Groynes are so placed as effectually to accomplish their purpose

7 The Government approves of and sanctions the proceedings of the Superintending Engineer reported in para 6 of his letter in authorizing the immediate commencement of blasting operations.

W.S

5 Copies.

To
The Superintending Engineer
4th Division
with 2 plans & Estimate Rupees 26:

3 " Accountant General
3 " Controller & Auditor
P.W accounts

30
4

P. W. 1863 Depte
Proc: of Govt for June
No: 1869.
Proc: of the Govt.
Dd 25 June 63

No: 579. 880

Revised Estimate of Rs 2900.
for rectifying the bed of the Chicacole
river near the bridge of that Town
Sungam. Sanctioned and the Proceed-
-ings of the Superintending Engineer
1st Division. authorizing the
Expenditure of Rs 1000 in blast-
-ing operations.—