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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 3303 -	Press
356-357	~~Mis.~~
Dated 17 - 11 - 18 64.	

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
17th November 1864.*

No. 356. Read the following letter from Lieutenant-Colonel C. V. WILKIESON, R. E.,
Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to
Government, in the Department Public Works, dated Cuddalore, 2nd November 1864.

SIR,

1. I have the honor to report that directly on receiving information of the tremendous fall of rain that occurred between the 17th and 19th of October in the South Arcot District and of the consequent floods, that I proceeded to Cuddalore to ascertain the extent of the damages, as well as to take measures for the repair of the injured works, more especially those of irrigation with the purpose of as much as possible saving the crops.

2. It appears that the rain commenced on Monday the 17th and continued until the 19th, during which time six inches fell at the Ponnar Anicut in the Ellavanasur Taluq of South Arcot; while at Cuddalore, the Collector tells me, that ten inches had fallen. At Ponnar the heavy fall being from 10 P.M. of the 18th to 6 P.M. of the 19th. At Cuddalore the heavy rain was from 8 A.M. of the 18th to 2 P.M. of the 19th October, while in Salem there was only of 2-8 during the same days.

3. From the reports that have been received, the flood consequent on the fall of rain seems to have confined itself to the three central Taluqs of this Division: Cuddalore, Vellapoorum, and Ellavanasur, and it is only in these Taluqs that the chief damages have occurred. Confining itself to the valley of Guddalum.

4. On my way to Cuddalore after I had passed Olunderpet and crossed the first feeder of the Guddalum, I began to see signs of the flood everywhere, which must have covered the whole country. Debris seen in trees sometimes as much as 10 feet above the road-way, the roads which were the best in Southern India having all the gravel washed off exposing the laterite foundations, and where the road crossed low ground the embankments in places clean washed away, leaving the small bridges and culverts standing in most cases uninjured. These signs increased as I approached Cuddalore. At the Trivady Anicut the water had clearly been 12 feet over the top of the wing-wall, and 4 or 5 feet over the top of the head sluice of the main channel. At New Cuddalore itself the whole Cantonment was under water, and now may be seen the water mark on every house and wall, nearly every godown and stable was flooded so that horses and cattle had to be brought into the houses. The Range Officer, Mr. Harrington, who was moving about seeing where he could be useful was carried away by the flood, and if he had not been a strong swimmer would have been lost, as it was he was fifteen minutes in the water. Annexed I give a list of roads, bridges, and irrigation works that have been injured, and a rough estimate of what sum of money will be required to repair these damages, and which sum I have the honor to request you will obtain the sanction of Government to the transfer of funds from some other Divisions, if there is nothing to meet it from the Reserve Fund, as I shall be able to expend all the sanctioned amounts under all heads in this Division.

5. I have already given orders to commence the repairs of all irrigation works, in the case of tanks, to preserve if possible the little water remaining in them, and for the three important anicuts on the Guddalum (Trivady, Vanamadavy, and Trivundipoorum) I have directed the Range Officer to make temporary dams in order to turn the water down the channels which is now escaping round the end of the wings. These last dams I am aware will greatly increase the cost of repair, but are unavoidable if the large crops, dependant on these works for water, are to be saved. In the case of the Guddalum bridge, the only work under head Communication that is likely to cost much money, I have not given any orders to commence work pending sanction of Government, though I must urge the necessity of immediate sanction to the probable cost of re-building this bridge, as it is the main road and channel of communication between Old and New Town of Cuddalore with a very large traffic over it. If sanctioned at once I have no doubt but I shall be able to open it to the public by the 1st of May. There is a small bridge in the middle of Old Town that I was obliged to give orders to proceed with in anticipation of sanction, but it is only a small work, two out of seven arches having been carried away.

2 Proceedings of the Madras Government, Public Works Department,
17th November 1861.

6. The works of importance that I see the necessity of mentioning separately to Government are as follows:—

IRRIGATION.

Trivady Anicut.—This anicut has been built seventeen or eighteen years, but last year it was lengthened 60 feet, which work was only just finished. The flood in the river was 10 feet above the wings. The water has forced its way round the ends of the Anicut, but the anicut itself is but little injured. One wing-wall is carried away and the new work is only a very little injured. Banks breached on each side, channel is also badly breached. This will at least cost Rupees 4,800, to repair of which there is a balance from an old estimate of Rupees 2,000.

Vanamadavy Anicut.—Wing-walls partly thrown down and banks badly breached, will cost at least Rupees 2,500, of which sum there is a balance of Rupees 500 of a former estimate available.

Trivundipoorum Anicut.—The wing-walls are thrown down, new work lately executed entirely carried away. Earthen banks heavily breached on each side. These repairs will require about Rupees 6,500, of which sum there is Rupees 800 of a former estimate available. Balance Rupees 5,700.

Perumal Tank.—Revenue Rupees 14,000. This tank is very badly breached in several places and will cost at least Rupees 12,000 to repair, beside Rupees 9,000 for the repair of the road that runs along the bund.

COMMUNICATIONS.

Guddalum Bridge.—Over the Guddalum river between Old and New Town. This was a bridge of twenty arches of 30 feet span, ten of these arches were built in 1813 to 1815, and in 1816 to 1817 ten more arches were added—built out of the Pagoda Funds with the assistance of the prisoners. In the flood it appears that the foundations of the seventh pier from the north side gave way, and all the arches to the north with the exception of the one next the bank tumbled down, after which one more arch fell over, so that now eight arches have fallen, and there are two more so injured that they must be taken down, leaving ten arches standing and ten to be rebuilt. The water appears to have risen to within six inches of the intrados, and the Executive Engineer could not pass the bridge by cutting away the approaches as the southern one was already carried away, and the northern one is very short and in the middle of a village. The whole of the arches propose to rebuild the ten arches, but do not consider that there is any necessity for increasing the water way as this flood must be considered as quite exceptional, so that, the old foundations which with the exception of two piers I believe to be uninjured I will do for the new erection. As however the bridge is very narrow, only eighteen feet between parapet walls, I propose to widen the new work to 20 or 22 feet, and to make the road over new and old the same width I would throw out the foot-path on each side. I estimate the cost of all this with improvements would be covered by a sum of Rupees 12,000, but a detailed estimate shall be sent in.

7. The total cost would therefore be Rupees 80,650, for which I request the sanction of Government.

IRRIGATION.

	Estimated Repairs.	Estimated from former estimate.	Balance required.
Trivady Anicut	Rs. 4,800	Rs.	Rs.
Vanamadavy Anicut	2,500	2,000	500
Trivundipoorum Anicut	6,500	500	6,000
Perumal Tank	12,000	800	11,200
Repairing breaches in tanks in Cuddalore Taluq	6,000	...	6,000
Do. do. do. Vellapoorum	7,000	...	7,000
Do. do. thirty Tanks in Ellavanasur Taluq	5,000	...	5,000
Repairs of thirty do. do.	4,000	...	4,000
Minor repairs in Cuddalore and Vellapoorum	4,000	...	4,000
Total of Irrigation	49,500	...	49,500

3 Proceedings of the Madras Government, Public Works Department,
17th November 1861.

COMMUNICATIONS.

	Rs.
Guddalum Bridge	12,000
Trunk Road No. 8, 112 miles	1,000
Perumal Tank road	9,000
Re-building two arches of bridge in Cuddalore Old Town	1,450
Repairing Chellumbrum road	3,500
Do. do. south approach to Guddalum Bridge	1,200
Breaches and tunnels in No. 9 Road	4,000
Total of Communications...	32,150

Grand Total... 80,650

In addition to these amounts there are the following roads injured which I shall be able to repair out of the Local Funds:—

	Rs.
Breaches in Virdachellum road	5,500
Building two arched bridge in do.	2,700
Re-building three arch bridge over the Thumbepatah channel	4,500
Repairing injuries to Teagavully salt pan road	2,300
Minor repairs	2,000
Total...	17,000

SOUTH ARCOT.

List of injuries caused by the flood on the 18th and 19th October 1861.

COMMUNICATIONS.

Name of work.	Probable Estimate.	Remarks.
CUDDALORE TALUQ.		
Guddalum Bridge	Rs. 12,000	Eight arches fell on the 19th and 20th October, and two now standing must be removed. <i>Vide</i> estimate accompanying.
Chellumbrum Road	3,500	7th, 8th, 10th, 11th, 12th, 13th, and 14th miles breached more or less; one arch of a bridge of three arches of 12 feet span in the 10th mile has fallen down. Estimate under preparation.
Teagavully Salt Pan Road, Local Funds.	1,200	1st, 2nd and 3rd miles badly breached, one road tunnel slightly cracked in the 4th mile, a bridge of one arch 12 feet span has lost its western wing, and the approaches breached to a breadth of 35 yards on one side and 20 yards on the other. Estimate being prepared.
Perumal Tank Road	9,000	Very heavy breaches in 11th, 12th, 13th, 14th, 15th, and 16th miles. The sluice supplying Aulapakum, &c., villages completely ruined. In the 17th mile and in the south bank of the Perumal tank the breaches are reported to be enormous. Estimate under preparation.
Virdachellum Road, Local Funds	5,500	Large breaches in 8th mile. Bridge of 24' span carried away, 11th, 12th, 13th, and 14th miles slightly injured; 15th mile two-thirds of scoured by flood, two large breaches, and wing-walls of a 24' bridge thrown down. Bridge of three arches of 24' span completely carried away in 16th mile, just finished at a cost of 3,260 Rupees, 17th, 18th, 19th, and 20th miles slightly injured; the 21st mile heavily breached; 22nd mile injured.
Road from Munjacoopum to Old Town.	1,200	Breaches in 1st, 2nd, 3rd, and 4th miles, but with one or two exceptions not heavy. The arch of one tunnel in the 3rd mile cracked, and two arches including the north wing of a bridge of seven arches over the Bandipolliem nullah have been carried away, estimate will be forwarded immediately.

List of injuries caused, &c., &c.—(Concluded.)

Name of work.	Probable Estimate.	Remarks.
Back-water Road	RS.	1st and 2nd miles breached. One tunnel in the 1st mile is completely ruined.
Mount Capper Road... ..	4,000	Breaches in 1st and 2nd miles.
Punrooty Road... ..		Heavy breaches in 13th, 14th, 17th, 19th, 20th and 24th miles.
Part of Trunk Road No. 9	2,000	105th, 109th, 110th, 111th, 123rd, and 124th miles breached. One tunnel in 109th mile is destroyed. The southern wing-wall of a tunnel in the 123rd mile has fallen down.
Road from Tripapooliyoort to Trivundipoorum.	To be repaired out of Local Funds.	1st and 2nd miles breached.
Road from Trivundipoorum to Vurgalput.		1st and 2nd miles breached.
Fort Saint David Road... ..		1st and 2nd miles breached.
Road from Arungonum to Nelli-coopum.		1st and 2nd miles breached, and cracks apparent in one or two tunnels.
Road from Puttampakum to Chittarasoor.		Injured.
Road from Chittarasoor to Pauloor.	Do.	Do.
Trunk Road No. 8... ..	VELLAPOORUM TALUQ. RS.	Breaches in 97th, 98th, 100, 101st, 102nd, 103rd miles.
Do. Road No. 9... ..		Breaches in 95th, 97th, 98th, 99th, 100, 101st, 102nd, 103rd, and 104th miles.
Mylum Road	2,000	No report sent, supposed to be uninjured.
Road from Velloppoorum to Pondichery.		17th and 21st miles breached.
Trunk Road from 112th to 113th mile No. 8.	ELLAVANAR TALUQ. 1,000	Washed quite away.
Trivundipoorum Anicut.	IRIGATION. RS. 5,700	New work lately executed entirely carried away. wing-wall on south thrown down, very heavy breaches on each side of the dam. Estimate forwarded.
Vanamadavy Anicut.		Both wings thrown down, anicut scarcely injured at all. Estimate sent in.
Trivady Anicut	2,000	Now wing and body stand well, about 2 feet of masonry having been removed from the crown banks breached through north and south of the dam, and northern wing-wall thrown down.
Perumal Tank.	2,800	Very badly breached.
34 Tanks breached	12,000	
41 Tanks breached	CUDALORE TALUQ. 6,000	
30 Tanks breached	VELLAPOORUM TALUQ. 7,000	
30 Tanks injured	ELLAVANAR TALUQ. 5,000	
Minor Repairs	4,000	
CAMP CUDALORE, 3rd November 1864.	4,000	

(Signed) G. V. WILKIESON, Lieut.-Colonel, R. E.
Superintending Engineer, 5th Division.

No. 357. ORDER THEREON, 17th November 1864, No. 3,303.

1. From the letter above recorded, the Government observe that the Superintending Engineer, 5th Division, estimates the cost of repairing the damages sustained by Public Works in the South Arcot District, consequent on the heavy fall of rain on the 17th, 18th, and 19th ultimo, at Rupees 1,00,950. Of this amount, Colonel Wilkieson states that Rupees 3,300 are available from

Trivady Anicut	...	...	...	...	...	RS. 2,000
Vanamadavy	...	...	...	...	...	500
Trivindipooram	...	...	...	...	...	800

the funds already allotted for the works marginally noted, and that Rupees 17,000 will be provided from Local Funds for the items mentioned below:—

	RS.
Breaches in Virdachellum road	5,500
Building two arched bridge on do.	2,700
Re-building three do. over the Thumbepatah channel	4,500
Repairing damage to Teagavully salt pan road	2,300
Minor repairs	2,000

2. The balance to be provided from Imperial Funds is therefore Rupees 80,650, as follows:—

NEW WORKS.		RS.
1. Trivady Anicut	...	2,800
2. Vanamadavy do.	...	2,000
3. Trivindipooram do.	...	5,700
4. Guddalum bridge	...	12,000
5. Bridge in Cuddalore Old Town	...	1,450
REPAIRS.		
Under "Agricultural"	...	38,000
Under "Communications"	...	18,700
		80,650

3. The only funds that are at present at the disposal of Government are:—
Rupees 17,320 from the allotment for the Lawrence Asylum works.
" 9,399 from the allotment for the Artillery Barracks at Cannanore.
Total ,, 26,719

4. In anticipation of the sanction of the Government of India, the Governor in Council authorizes the following transfers:—

From	RS.	To	RS.
The allotment for the Lawrence Asylum Works, Coimbatore	2,800	The Trivady Anicut	2,800
Do.	2,000	The Vanamadavy do.	2,000
Do.	5,700	The Trivindipooram do.	5,700
Do.	6,820		
The allotment for the Artillery Barracks at Cannanore	5,180	The Guddalum bridge	12,000
Do.	1,450	The bridge in Cuddalore Old Town.	1,450
Do.	2,769	Repairs "Agricultural"	2,769
	26,719		26,719

5. As any delay in carrying out the whole of the repairs under "Agricultural" and "Communications" will cause considerable inconvenience, and prove detrimental to the interests of the State, the Superintending Engineer, 5th Division, will arrange for their immediate execution from the funds at his disposal. Any savings that may hereafter be reported by other Superintending Engineers will be transferred to the credit of the South Arcot District.

6 *Proceedings of the Madras Government, Public Works Department,*
17th November 1864.

6. Colonel Wilkieson will be requested to expedite the submission of estimates for the new works above adverted to, and he will report the dates and numbers of the orders of Government allotting funds for the three anicuts referred to in the margin of paragraph 1 of these Proceedings.

7. Ordered that the following letter be sent:—

(Here enter No. 3,304, dated 17th November 1864.)

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 5th Division.
" Do. do. 7th Division.
" Controller of Public Works Accounts.
" Accountant General.

Erd. S. T. Augustin.

PUBLIC WORKS DEPARTMENT.

Public.

FORT SAINT GEORGE,
17th November 1864.

No. 358.

No. 3,304.

From

COLONEL C. A. ORR, R. E.,

Secretary to the Government of Fort Saint George, P. W. D.,

To

The Secretary to the Government of India, Public Works Department.

Sir,

Procs. of Govt., dated 17th November 1864, Nos. 353,357.

I am directed to forward copy of the Proceedings marginally noted, containing a letter from the Superintending Engineer, 5th Division, reporting damages to Public Works in the South Arcot District, caused by a heavy fall of rain which occurred on the 17th, 18th and 19th ultimo, and to request that the sanction accorded by this Government to the undermentioned transfers of funds may receive the confirmation of the Government of India:—

From	RS.	To	RS.
The allotment for the Lawernee Asylum works Coimbatore, Item 34 of Budget	2,800	The Trivady Anicut	2,800
Do.	2,000	The Vanamadavy do.	2,000
Do.	5,700	The Trivindipooram	5,700
Do.	6,820		
The allotment for the Artillery Barracks at Cannanore, Item 27 of Budget ...	5,180	The Guddalum bridge	12,000
Do.	1,450	The bridge in Cuddalore old Town	1,450
Do.	2,769	Repairs "Agricultural"	2,769
	26,719		26,719

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Erd. S. T. Augustin.

Superintending Engineer's Office

Caddo 2^d November 1864.

Dear Sir, I have the honor to acknowledge the receipt of your letter of the 27th inst.

and in reply to inform you that I have forwarded the same to the proper authorities.

I am, Sir, very respectfully, your obedient servant.

Very truly yours, J. M. Wilson P.E.

Secretary to the Commission in the C.P.M.

I have the honor to report that immediately on receiving information of the tremendous fall of rain that occurred between the 17th & 19th of October in the South Creek District and of the consequent floods, that I proceeded to Caddo to ascertain the extent of the damages, as well as to take measures for the repair of the injured works, more especially those of irrigation with the purpose of, as much as possible, saving the crops.

It appears that the rain commenced on Monday the 17th and continued until the 19th during which time 6 inches fell at the Pannier Creek in the Collavanasur Taluq of S. Creek; while at Caddo the Collector tells me, that 10 inches had fallen. At Pannier the heavy fall being from 10 P.M. of the 18th to 6 P.M. of the 19th, at Caddo the heavy rain was from 8 A.M. of the 18th to 2 P.M. of the 19th October, while in Valm there was only of 2.8 during the same days.

From the reports that have been received the flood consequent on the fall of rain seems to have confined itself to the three central taluqs of this Division, Caddo, Collavanasur and Collavanasur, and it is only in these taluqs that the chief damages have occurred. Confining itself to the valley of Caddo.

On my way to Caddo after I had passed Ootundurpet and crossed the first spur of the Caddo range, I began to see signs of the flood, every where which must have covered the whole country. Debris seen in trees sometimes as much as 10 feet above

about the Road way, the Roads which were the best in Southern India having all the gravel washed off, exposing the Salustli foundations and where the Road crossed low ground the embankments in places clean washed away, leaving the small Bridges and Culverts standing in most cases uninjured. These signs increased as I approached Cuddalore. At the Priady Annicut the water had clearly been 12 feet over the top of the wing throw wall and 10 or 5 feet over the top of the head sluice of the main Channel. At new Cuddalore itself the whole Cantonment was under water and now may be seen the water marks on every house and wall, nearly every godown and stable was flooded so that horses and Cattle had to be brought in the houses. The range Officer Mr. Hoarington who was moving about seeing what he could be useful, was carried away by the flood, and if he had not been a strong swimmer would have been lost as it was he was fifteen minutes in the water. Annicut I give a list of roads, bridges, and irrigation works that have been injured and a rough Estimate of what sum of money will be required to repair these damages and which sum I have the honor to request you will obtain the sanction of Government to the transfer of funds from some other Division if there is nothing to meet it from the reserve fund, as I shall be able to refund all the sanctioned amounts under all heads in this Division.

I have already given orders to Commence the repairs of all irrigation works in the case of tanks, to preserve if possible the little water remaining in them, and for the three important Annicuts on the Cuddalore, Priady, and Varamadavy Annicuts in order I have directed the range Officer to make temporary dams in order to turn the water down the Channels which is now escaping round the end of the wings. These last dams I am aware will greatly increase the cost of repair but are unavoidable if the large escape of water is to be stopped. On the case of the Cuddalore bridge the only work under Road Communication that is likely to cost much money I have not given any orders to do.

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pending sanction of Government this I must urge the necessity of immediate sanction to the probable cost of rebuilding this bridge as it is the main Road and Channel of Communication between Old and New Town of Cuddalore with a very large traffic over it. If sanctioned at once I have no doubt but I shall be able to open it to the Public by the 1st of May. There is a small bridge in the middle of Old Town that I was obliged to give orders to proceed with in anticipation of sanction but it is only a small work two out of seven arches having been carried away.

The works of importance that I see the necessity of mentioning separately to Government are as follows.

Irrigation

Priady Annicut This annicut has been built 17 or 18 years, but last year it was lengthened 60 feet which work was only just finished. The flood in the river was 10 feet above the wings. The water has forced its way round the ends of the Annicut but the Annicut itself is but little injured. One wing wall is carried away and the new work is only a very little injured. Banks breached on each side, Channel is also badly breached. This will at least cost Rs 4500. to repair of which there is a balance from an old Estimate of Rs 2000.

Varamadavy Annicut Wing walls partly thrown down and Banks badly breached will cost at least Rs 2500. of which sum there is a balance of Rs 500 of a former Estimate available.

Prinndiporum Annicut The wing walls are thrown down, new work lately executed entirely carried away. Earthen banks heavily breached on each side. These repairs will require about Rs 6500. of which sum there is Rs 300 of a former Estimate available. Balance Rs 700. Prinndiporum Revenue Rs 10000. This tank is very badly breached in several places and will cost at least Rs 12000. to repair beside Rs 9000.

for the repair of the Road that runs along the bund.

Communication

Cuddalur Bridge, over the Cuddalur river between old and new Town. This was a bridge of 20 arches of 20 feet span. Ten of these arches were built with 3 lifts and with 15 ft. ten more arches were added, built out of the Pagoda funds with the assistance of the Presbytery. In the flood it appears that the foundations of the seventh pier from the North side gave way and all the arches to the north with the exception of the one next the bank tumbled down. After which no more arch fell over so that now eight arches have fallen and three are too injured that they must be taken down. Leaving ten arches standing and ten to be rebuilt. The water appears to have risen to within six inches of the intrados and the Corbelles. Engineer could not raise the bridge by cutting away the approaches as the Southern one was already carried away and the Northern one is very short and in the middle of a village. The whole of the arches carried away were the ones last built in 1817. The other ones are quite sound. I now propose to rebuild the ten arches but do not consider that there is any necessity for increasing the water way as this flood much be considered as quite exceptional. That the old foundations which with the exception of two piers I believe to be unimpaired with do for the new erection. As however the bridge is very narrow only eighteen feet between parapet walls. I propose to widen the new work to 20 or 22 feet and to make the road over new and old the same width. I would throw out the path on each side by granite slabs like all the bridges in the Madras and put a light iron railing on each side. I estimate the cost of all this with improvements would be covered by a sum of Rs 12000. but a detailed estimate shall be submitted.

The total cost would therefore be Rs 12000. for which I request the sanction from Government.

Urugation

13 C 3
Estimated Repair
Balance former estimate
Balance required.

Privady & Anniah	6500	2000	2500 ✓
Nanamaday & Anniah	2500	500	2000 ✓
Prinadipooram & Anniah	6500	800	5700 ✓
Perumal Tank	12000		12000 ✓
Repairing breaches in tanks in Cuddalur			
Salug	6000		6000
do do do do Tellopanam	7000		7000
do do do 30 Tanks in			
Collavanasure Salug	5000		5000
Repairs of 30 do do	1000		1000
Minor repairs in Cuddalur & Tellopanam	1000		1000
Total of irrigation			63500.

Communications

Cuddalur Bridge	12000 ✓
Tank & Road 48 miles	1000
Perumal Tank & Road	9000
Rebuilding two arches of bridge in Cuddalur old Town	1450 ✓
Repairing Chellamburam Road	3500
do do South approach to Cuddalur bridge	1200
Approaches and Tunnels in 89 Road	1000
Total of Communications	32150
Grand Total (Rupees)	80650

In addition to these amounts there are the following roads injured which I shall be able to repair out of the Local Funds.

Approaches in Chidamburam Road	5000
building arched bridge in do	700
Rebuilding arch bridge over the Anniah	
Chidamburam	1500
Repairing approach to Chidamburam Road	2000
Minor repairs	2000
	17000

for signature

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Name of work	Probable Estimate	Remarks
<u>Cuddalore & Aug.</u>		
Cuddalore Bridge	12000	Eight arches fell on the 19 and 20 October and two now standing must be removed. vide Estimate accompanying.
Kellumbum Road	3500	7 th 8 th 10 th 11 th 12 th 13 th and 14 th miles breached. more or less; one arch of a bridge of 3 arches of 12 feet span in the 10 mile has fallen down. Estimate under preparation.
Nagavally Vallam Road Local Funds	1200	1 st 2 nd and 3 rd miles badly breached, one Road Tunnel slightly cracked. in the 10 mile, a bridge of one arch 12 feet span has lost its western wing, and the approach, breached to a breadth of 25 yards on one side and 20 yards on the other. Estimate being prepared.
Punal Canal Road Local Funds	9000	Very heavy breaches in 11 th 12 th 13 th 14 th 15 th and 16 th miles. The sluice supplying Pulatallam &c. villages completely ruined. In the 17 th mile and in the South Bank of the Punal Canal the breaches are reported to be enormous. Estimate under preparation.
Vidachellum Road Local Funds	5500	Large breaches in 8 th mile. Bridge of 24' span carried away. 11 th 12 th 13 th and 14 th miles slightly injured. 15 th mile 2/3 of it covered by flood: two large breaches, and wing walls of a 24' bridge thrown down. Bridge of 3 arches of 24' span completely carried away in 16 th mile just finished at a cost of 3260 Rs. 17 th 18 th 19 th and 20 th miles slightly injured. the 21 st mile heavily breached. 22 nd mile injured.
Road from Manjaceppum to Old Town	1200	Breaches in 1 st 2 nd 3 rd and 4 th miles, but with one or two exceptions not heavy. The arch of one tunnel in the 3 rd mile cracked and 2 arches including the north wing of a bridge of 7 arches over the Wandipolam nullah have been carried away. Estimate will be forwarded immediately.

Submitted for the order of J.

2. The Superintendent Engr. S. A. King
applied for a grant of \$20,650 for
repairs of damages reported in
letter. The only funds available
were noted below.

From the allotment for the
American citizens worth 3
From the allotment for the natives
Dance to at Quannan 3

767

3 The Office has long since
exhausted, and there seems but little

to apply to the Court of Session for a grant. Application has already been made by the State for additional

ments to the extent of \$96,679.28, but no part of this sum have yet been granted. The undesignated named amount of \$44,000

The available funds, viz Rs 26719, has been placed at the disposal of the Government.

in instructions to proceed with the navigation,
and my account stated may hereafter be re-
sulted by me, showing the same be transferred to
the credit of the South Sea Company.

Depend on the former
instructions & with a
view to the 10th of September

London

1873
1874

Richard Dyer

Chickadee

SECRET

1204775

Theodore D. S.

Ch. J. R. R.

2402403-43304-17m210m/64

28. 236-237

Y. 11. 2. 1864. 11. 11. 11.

Name of work	Probable Estimate	Remarks
Backwater Road		1 st and 2 ^d miles branched. One tunnel in the 1 st mile is completely ruined.
Mount Capper Road	6000	Reaches in 1 st and 2 ^d miles
Burroly Road		& many branches in 1 st , 11 th , 17 th , 19 th , 20 th and 21 st miles.
Out of Tunnel Road	2000	105 th , 109 th , 110 th , 111 th , 112 th and 113 th miles branched. One tunnel in 109 th mile is shut up & the Indian masonry wall of a tunnel in the 112 th mile has fallen down.
Road from Chapasootigen to Jimindipocum		1 st and 2 ^d miles branched
Road from Jimindipocum to Varganishub		1 st and 2 ^d miles branched
Road from David's Road		1 st and 2 ^d miles branched
Road from Drongonum to Mellicoopham		1 st and 2 ^d miles branched.
Road from Puttampa. Kunu to Chittaracoor		1 st and 2 ^d miles branched and cracks appeared in center of two tunnels.
Road from Chittaracoor to Pambor		Unjudged
		etc.
Villapocum Canal		
Tunnel Road No. 8		
No. 8 Road	2000	Reaches in 97 th , 98 th , 100 th , 101 st , 102 ^d , 103 ^d & 104 th .
Mylum Road		Reaches in 95 th , 97 th , 98 th , 99 th , 100 th , 101 st , 102 ^d , 103 ^d and 104 th . It is supposed to be unjudged
Road from Villapocum to Pandienry		17 th and 21 st miles branched.
Chittaracoor Canal		
Tunnel Road from 112 to 113 Mile No. 10	1000	Washed quite away.

Unification

C. <i>truncatissimum</i> Ammink	5700	Arrow-like lately executed entirely Carved away. wing wall on inside thrown down. very many beams on each side of the dam. Climate forwarded.
C. <i>anastomosis</i> Ammink	2000	Both wings thrown down. Ammink scarcely injured at all. Climate embow.
C. <i>truncatissimum</i> Ammink	2300	New wing and body stand well. about 2 feet of masonry having been removed from the River Banks reached through north and South of the dam. and northern wing wall thrown down.
C. <i>truncatissimum</i> Ammink	12000	Very badly reached
36 C. <i>truncatissimum</i> reached	6000	<i>C. <u>truncatissimum</u> Value</i>
41 C. <i>truncatissimum</i> reached	7000	<i>C. <u>truncatissimum</u> Value</i>
30 C. <i>truncatissimum</i> reached	5000	<i>C. <u>truncatissimum</u> Value</i>
30 C. <i>truncatissimum</i> injured	4000	
Alm. <i>truncatissimum</i>	4000	

William Luck 1881
Superintendent Engineer's Division

(Camp) (Addatore. }
3rd November 1864 }

Public Works Department

412,3303

Proceedings of the Madras Government
Under date the 17th November 1864
Read the following

From the Superintending Engineer & Division

Report on the Floods at
Cuddalore South Arcot on
the 18th and 19th of October 1864. } H E 3^d November 1864
No.

From the letter
above recorded, the Hon
Secy that the Super:
intending Engineer 5th
Div. estimates the cost
of repairing the damages
sustained by Public
Works in the South
Arcot District, consequent
on the heavy fall of

Superintending Engineer
5th Div. in date
3rd November 1864

Considered

2 The balance to be provided from Imperial funds is therefore Rs. 80650, as follows.

New Works.

1	Spivady Ament	2,800
2	Vanamachay - "	2,000
3	Trinidipooram - "	2,700
4	Indulelum Bridge .	12,000
5	Bridge in Cudalalao old town }	1,150

Repairs.

Under "Agricultural"	38,000
Under "Communications"	18,700
	<u>80,650</u>

3 The only funds that are at present at the disposal of Government

from on the 17th 18th 7
19th Ultimo at Rs.
100,950 of this

amount, Col. Wilkison states that Rs. 3,300 are available from the funds already allotted for the works marginally noted, and that Rs. 17,000 will be provided from Local Funds for the items mentioned below.

Spivady Ament	2,000
Vanamachay - "	5,000
Trinidipooram - "	800

Branches in Vindachellum Road.	5,500
Building 2 Arched bridges on - - -	2,700
Rebuilding 3 - - - over the Thumbepatah Channel }	4,500
Repairing damage to Teyaravally salt Pan road	2,500
Minor Repairs	2,000

R^y 17,320 from the allotment for
the Lawrence Asylum work.

R^y 9,399 from the allotment for the
Artillery Barracks at Cannanore.

Total R^y 26,719

4 In anticipation
of the sanction of the Govt.
of India, the Governor in
Council authorizes the
following Managers -

From.	R ^y	To.	R ^y
The allotment for the Lawrence Asylum Work - Coimbatore.	2,800	The Privy Council	2,800
Do	2,000	The Viceroy - Do	2,000
Do	5,700	The Privy Council - Do	5,700
Do	6,820		
The allotment for the Artillery Barracks at Cannanore.	5,180	The Madras Government	12,000
Do	1,150	The Bridge in Coimbatore	1,150
Do	2,769	old Town	2,769
	<u>26,719</u>	Repairs "Agricultural"	<u>2,769</u>
			<u>26,719</u>

5 As any delay in
carrying out the ~~whole of the~~
repairs under "Agricultural"
and "Communications"
will cause considerable
inconvenience, and prove
detrimental to the interests
of the State, the Superd^y
S^d & S^d will arrange for
their immediate execution
from the funds at his
disposal. Any savings
that may hereafter be
reported by other Superd^y
S^d will be transferred
to the credit of the South
West Dist^y.

Wm. Wilkison will
be requested to expedite

for the New work
 above adverted to he will
 report the date & No. of the
 orders of
 Govt allotting funds for the
 three incidents referred to in the
 margin of serial of the 20 & No.

Specified that
 the following letter
 her sent.

To Secy 3304
 The Secretary 1871
 Govt of India C.O.D.

Sir:
 I am directed
 to forward copy of
 the preceding marginally
 noted, containing a letter
 from the Supdngy S.D.,
 reporting ~~the~~ damages to

To The Supdngy S.D.
 " do 7th Dist
 " Controller of
 " Govt Land
 D.O. 18th November

Pro: of h. G. dated 17th Nov/64
 252.3303.

in the South Coast District,
 caused by ~~an~~ heavy
 fall of rain ^{which occurred} on the
 17th 18th and 19th
 ultimo, and to request
 that the sanction
 accorded by the
 Government to the
 undermentioned trans-
 fer of funds
 may receive the
 confirmation of
 the Government
 of India -

Yours
 J. P.

From. Rs. To. Rs.

The allotment for the
Savannah ^{Item 34 of Budget} _{to the Cribbalee.} — 2800
Do ————— 2000
Do ————— 5700
Do ————— 6820

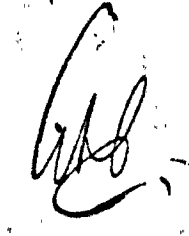
The Eruady Ament — 2800
The Vanamady — 2000
The Trivindipuram — 5700

The allotment for the
Arillery Barracks at
Cannanore ^{Item 27 of Budget} — 5180
Do ————— 1150
Do ————— 2769

The Gudalur bridge — 12000
The Bridge in
Cudalore old Town — 1150
Repairs "Agricultural" — 2769

26719

26719

Chepauk
17th Nov 1864 } 

Decr. 18th November

90 1864 Depu
Pro. of Geo. for 1000.

C. 2330.
Pro. of the Albion
2/17. 1865

266/15

Further 11/18/65 1866

Letter from the
Supp. Engr. to Depu
reporting damages
to 1897. in the ¹⁸⁶⁵ District by a heavy
fall of rain from the
17th up to 19th October
1864. With orders thereon.

2356 2358