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MADRAS RECORD OFFICE.

Government of Madras.

16/10/1971 DEPARTMENT.

G.O. No. 1510	Press Mis.
Dated 2/10/71	18/10/71

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

No. 48. Read the following letter from the Chief Engineer for Irrigation, to the Secretary to Government, Public Works Department, dated Madras, 16th May 1871, No. 24 :—

I HAVE the honour to submit the following report on the progress made in the works of the Madras Irrigation and Canal Company during the quarter ended 30th September 1870.

2. *Expenditure during the quarter.*—There was a great falling off in the progress made during the quarter as indicated by the expenditure, which amounted to only Rupees 1,99,213 against Rupees 4,44,201 in the previous quarter.

3. *Soonkasala Anicut.*—The expenditure on this work was Rupees 712-5-4, the items being :—

	RS.	A.	P.
Repair of the breach in the north bank of the anicut ...	414	13	4
Constructing a dam across the river above north anicut breach ...			
Groyne at Soonkasala ...	297	8	0

4. *Hindry Aqueduct.*—The expenditure on this work was Rupees 2-11-10 for special superintendence and sundries.

5. *1st Section, Main Canal.*—Rupees 3,554-10-2 were expended on the 1st Section of the Main Canal, 1 to 17 $\frac{1}{4}$ miles, the work done being :—

	RS.	A.	P.
Earthwork ... Cubic yards 230	627	15	4
Revetment and shingling ...	26	0	0
Three waste weirs ...	12	14	8
Ferry boat ...	23	2	3
Self-acting sluice and repairs to culvert in the 2nd mile ...	2,538	8	1
Special superintendence and sundries ...	326	1	10

6. *2nd Section.*—Rupees 5,603-1-4 were expended on the 2nd Section from the 18th to the 32nd mile, the items being :—

	RS.	A.	P.
Canal walls ...	117	14	8
Masonry wall and puddling to stop the leakage in the 30th mile ...	2,033	14	2
Raising and strengthening the right bank between the Kadabagh aqueduct and the slip in the 24th mile ...	2	0	0
Repairs to slip, lower embankment... ..	8	2	0
18th mile, lower bank ...	26	12	0
Water cushion ...	300	0	0
Protecting with a lining of puddle covered by a layer of shingle dry rubble walls Nos. 2 and 3 in the 26th mile and 4 in the 29th mile for stopping the leakage ...	3,011	2	1
Iron ferry boats ...	2	8	0
Contingencies ...	100	12	5

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

7. 3rd Section.—Rupees 2,749-2-5 were expended on the 3rd Section from the 33rd to the 43rd mile, the details being :—

	Cubic yards	RS.	A.	P.
Excavation and embankment	48	6	0	0
Bridge, second class, close to waste weir No. 15		45	8	0
Do., third class, at Satanicotta		672	0	0
Do., do., at Muddigutla		908	14	0
Sultanpore tunnel		653	14	0
Contingencies for earth and masonry works		462	14	5

8. 4th Section.—Rupees 896-4-6 were expended on the 4th Section or miles 44 to 60 of the canal, the particulars being :—

	Cubic yards	RS.	A.	P.
Excavation and embankment		25	12	0
Revetment and pitching		147	6	0
One waste weir		174	9	0
Repairs to slip		461	0	0
Contingencies		87	9	6

9. 5th Section.—Rupees 6,719-11-2 were expended on the 5th Section of the Main Canal from the 61st to the 72nd mile, the items being :—

	Cubic yards	RS.	A.	P.
Excavation and embankment	3,490	3,104	15	9
Revetment	450 $\frac{1}{2}$	779	10	0
One culvert		7	0	0
Bridge, second class, at Jootoor		1,315	1	9
Do., do., at Terragopilly		1,373	10	0
Repairs to slip, 63rd mile		20	8	0
Contingencies		118	13	8

10. 6th Section.—Rupees 40,229-5-3 were expended on the 6th Section, or miles 73rd to 91st, the items being :—

	Cubic yards	RS.	A.	P.
Excavation and embankment	8,650	1,521	2	2
Revetment	222 $\frac{1}{2}$	22,837	11	0
Catch-water drain		5	3	2
Stop bank in the 82nd and 83rd miles		248	7	7
Scouring sluice in the 73rd mile		7	14	1
Head-sluice		1	8	8
Lock No. 2		1,967	8	10
Do. " 2-A		640	5	0
Do. " 3		1,032	14	5
Do. " 4		1,379	8	0
Do. " 5		162	5	0
Do. " 6		1,337	10	11
Do. " 7		2,638	12	11
Do. " 8		127	15	8
Do. " 9		83	12	0
Do. " 9-A		87	12	0
Do. " 10		169	9	0
Do. " 11		197	7	0
Do. " 12		2,172	4	8

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

	RS.	A.	P.
Three culverts	2,223	1	6
Bridge, second class, at Valapanoor	104	8	2
Lock gate	1,043	14	6
Contingencies	238	1	0

11. 7th Section.—Rupees 17,546-11-3 were expended on the 7th Section, miles 92nd to 114th, for :—

	Cubic yards	RS.	A.	P.
Embankment and cutting	22,640	5,447	5	1
Trimming canal banks and closing foot-path		1,170	8	6
Anicut and head-works		628	15	8
Regulating lock		3,512	2	1
Four waste weirs		2,090	13	4
Bridge, second class, at 96th mile		164	0	0
Do., do., at 98th do.		295	2	0
Do., third class, at 100th do., 22 chains		325	8	0
Do., second class, at 100th do., 46 do.		749	6	7
Do., do., at 105th do.		47	13	7
Do., first class, at 107th mile at Ayaloor		65	0	0
Do., third class, at 108th do.		853	15	5
Do., second class, at 110th do.		1,265	8	2
Do., first class, at 112th do.		501	8	8
Five culverts		162	12	8
Calingulah and bridge		2	0	0
Lock gates		89	6	10
Contingencies		174	12	8

12. 8th Section.—Rupees 27,730-13-3 were expended on the 8th Section, miles 115th to 143rd, the items being :—

	Cubic yards	RS.	A.	P.
Embankment and cutting	14,804	3,691	6	10
Lock No. 1 at 115th mile		3,546	12	7
Do. " 2 at 117th do.		3,038	9	11
Do. " 3 at 118th do.		2,121	11	6
Do. " 4 at 119th do.		3,833	15	8
Do. " 5 at 121st do.		2,977	6	7
Do. " 6 at 122nd do.		74	8	8
Do. " 7 at 123rd do.		70	12	7
Do. " 8 at 124th do.		23	15	11
Do. " 9 at 125th do.		17	12	10
Do. " 10 at 126th do.		17	12	4
Do. " 10-A at 129th do.		189	0	7
Do. " 11 at 132nd do.		80	9	7
Do. " 12 at 136th do.		84	10	9
Do. " 13 at 137th do.		16	13	8
Do. " 14 at 140th do.		270	3	4
Do. " 15 at 142nd mile		102	13	6
Do. " 16 at 144th do.		607	2	8

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

	RS.	A.	P.
Bridge, second class, at 144th mile	1,531	2	8
Do., do., at 134th, 135th, and 143rd mile	2,726	14	4
Two culverts...	339	14	0
Calingulah and sluices with waste channel, and second-class bridge over channel above first lock at 115th mile.	77	2	0
Eleven waste weirs	2,242	13	1
Special superintendence and sundries	46	11	8

13. 9th Section.—Rupees 17,864-15-1 were expended on the 9th Section, or miles 144th to 178th of the canal, namely:—

	RS.	A.	P.
Earthwork	5,100	13	0
Off-take channel at Rajoly	422	1	1
Anicut across the Kunder at do.	306	3	8
Head-sluice at Rajoly	35	15	10
Aqueduct at 155th mile, 36 chains	30	0	0
Do. at 157th do., 54 do.	28	1	5
Do. at 166th do., 15 do.	82	0	0
Lock at 169th mile, 22 chains	1,341	1	3
Do. at 169th do., 60 do.	728	1	7
Do. at 170th do., 21 do.	613	13	7
Do. at 171st do., 60 do.	720	14	1
Do. at 172nd do., 50 do.	656	11	4
Do. at 174th do., 45 do.	63	15	8
Do. at 174th do., 74 do.	62	11	8
Do. at 176th do., 13 do.	62	0	7
Do. at 177th do., 72 do.	163	0	0
One waste weir	22	14	1
Five culverts	1,220	4	8
Alteration and diversion of public road	7	0	0
Two surplus weirs	6,002	2	3
Special superintendence and sundries	195	1	4

14. 10th Section.—Rupees 22,238-3-2 were expended on the 10th Section, or miles 179th to 186th of the canal, the particulars being:—

	RS.	A.	P.
Earthwork and embankment	15,081	14	5
Head lock and bridge at Adimapully	1,529	15	0
Aqueduct at Punkul Wunkah	1,685	0	0
Five culverts...	3,166	9	9
Bridge over scouring sluice channel under main road to Kurnool	32	8	0
Contingencies	742	4	0

15. Adimapully Anicut.—The expenditure on this work was Rs. 41,470-15-7, the items being:—

	RS.	A.	P.
Anicut across the Pennair at Adimapully	31,863	4	2
Under sluice, south side	4,087	14	0
Head-sluice	1,105	5	10

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

	RS.	A.	P.
Flood banks, north side	4	2	0
Stop banks, south, including contingencies	2,601	9	7
North wing wall	1,808	12	0

16. Distribution Works.—The expenditure on works of distribution was Rupees 9,994-15-4, for:—

	RS.	A.	P.
1st Section distribution works	156	3	3
2nd do. do.	113	11	5
3rd do. do.	97	10	2
4th do. do.	850	5	9
5th do. do.	241	2	0
6th do. do.	8,305	7	11
7th do. do.	130	4	9
9th do. do.	100	2	1

17. Buildings.—Rupees 20-8-0 were expended on buildings, namely:—

	RS.	A.	P.
Converting the unfinished building intended for a Gun-powder Manufactory into a hospital	11	8	0
Office and store building at Chintagunta in Kunder	1	0	0
Office, Store and Workshop at Kurnool	8	0	0

18. Telegraph.—Rupees 1,878-8-6 were expended on the telegraph line from Soonkasala to Cuddapah.

19. Abstract of expenditure.—The following abstract shows the expenditure on all works from the commencement to the close of the quarter compared with the sanctioned estimates:—

Proceedings of the Madras Government, Public Works Department,
2nd June 1871.

Proceedings of the Madras Government, Public Works Department,
2nd June 1871.

Works.	Amount of Estimate.	Expenditure up to 30th June 1870.	Cost during the quarter ended 30th Sept. 1870.	Total Expenditure.	Add amount transferred to this from other works.	Deduct re-funds to this from other works.	Total Net Expenditure.	Amount.	
								Available.	Increase of Estimate.
<i>Main Supply.</i>									
Ancient and head-works at Kurnool	3,03,080	60,327	712	60,327			60,327	2,42,753	.....
Do. do. at Soonkasala	4,82,122	4,69,386	.....	4,70,098			4,70,098	15,024	.....
Do. do. at Somaishwaram	1,71,727	66,120	.....	66,120			66,120	1,05,607	.....
Do. do. at Adamapully	3,44,440	3,16,434	41,471	3,57,905		60	3,57,845	13,405	75
Aqueduct across the river Hindry	2,76,250	2,76,322	3	2,76,325			2,76,325	.....	.....
Canal for one mile from the head-sluice of the Kurnool anicut	65,000	49,285	.....	49,285			49,285	15,715	.....
Main Canal, 1st Section, 17th mile	10,73,687	10,91,708	3,555	10,95,263	179	179	10,95,084	21,397	.....
Do., 2nd do., 18th to 32nd mile	18,29,670	19,52,228	5,613	19,57,841	6	10	19,57,831	1,28,157	.....
Do., 3rd do., 33rd to 43rd do.	9,75,790	9,03,572	2,719	9,06,291		692	9,05,629	70,161	.....
Do., 4th do., 44th to 60th do.	10,55,521	9,77,554	896	9,78,450		2	9,78,450	77,071	.....
Do., 5th do., 61st to 72nd do.	8,80,738	8,62,073	6,720	8,68,793		164	8,68,791	11,947	.....
Do., 6th do., 73rd to 91st do.	9,43,427	7,70,291	40,229	8,10,523		282	8,10,359	1,33,068	.....
Do., 7th do., 92nd to 114th do.	7,48,483	6,29,130	17,516	6,46,646		1,926	6,46,594	1,02,089	.....
Do., 8th do., 115th to 143rd do.	7,80,111	6,79,021	27,731	7,07,352		8,093	7,05,426	71,855	.....
Do., 9th do., 144th to 178th do.	9,45,837	6,43,459	17,865	6,61,324			6,51,231	2,92,606	.....
Do., 10th do., 179th to 186th do.	2,57,147	1,41,658	22,238	1,63,896			1,63,896	93,251	.....
Total...	1,11,36,030	98,89,171	1,87,318	1,00,76,489	6	11,408	1,00,65,087	12,73,977	1,61,034
<i>Distribution.</i>									
Branch channels and sluices of 1st Section	7,003	4,972	156	5,128			5,128	1,875	.....
Distribution Works of 2nd Section	6,000	4,618	114	4,732			4,732	1,268	.....
Do. do. of 3rd do.	11,150	10,098	98	10,196			10,196	951	.....
Do. do. of 4th do.	28,929	21,926	850	22,776			22,776	6,153	.....
Constructing a bund across the canal in the 45th mile, 4th Section	76	73	.....	73			73	3	.....
Distribution Works of 5th Section	20,550	545	241	787			787	19,763	.....
Do. do. of 6th do.	71,400	2,897	8,306	11,203			11,203	60,197	.....
Do. do. of 7th do.	2,045	.....	130	130			130	1,915	.....
Do. do. of 9th do.	15,008	380	100	480			480	14,528	.....
Do. do. at Soonkasala	925	925	.....	925			925	.....	.....
Kurnool town water-supply	1,699	1,417	.....	1,417			1,417	282	.....
Total	1,64,785	47,852	9,935	57,847			57,847	1,06,938	.....

Buildings.	Amount of Estimate.	Expenditure up to 30th June 1870.	Cost during the quarter ended 30th Sept. 1870.	Total Expenditure.	Add amount transferred to this from other works.	Deduct re-funds to this from other works.	Total Net Expenditure.	Amount.	
								Available.	Increase of Estimate.
Central Hospital, with out-houses and compound wall, at Kurnool	5,050	4,781	.....	4,781			4,781	269	.....
Repairs to do. do. do.	68	60	.....	60			60	8	.....
Overseer's hut at Kurnool	1,245	.....	.....	.....			.....	1,245	39
Office, Store-house, and Workshop at Soonkasala.	5,947	5,986	.....	5,986			5,986	.....	.....
Powder Magazine, Store, and Station roads at	4,359	4,359	.....	4,359			4,359	423	.....
•Bowanassy	7,298	7,523	.....	7,523			7,523	260	.....
Office and Store-room and Artificers' shed at do.	648	.....	.....	.....			.....	318	.....
Repairing the above building at do. ... to the Improvement of the road, approaching culverts at do. ... above buildings and repairing culverts at do. ...	578	318	.....	318			318	396	20
Converting the unfinished building intended for a Gun-powder Manufactory into a hospital at do. ...	427	19	12	31			31	.....	659
Office and Store building at Valapanoor in do. ...	1,970	1,990	.....	1,990			1,990	.....	.....
Do. do. at Jupad in the Nagatoor Division.	4,123	4,782	.....	4,782			4,782	144	.....
Do. do. at Pugyrdial in do. ...	3,977	3,833	.....	3,833			3,833	5	.....
Do. do. at Chintagoonta in Koondaur do. ...	5,283	5,277	.....	5,278			5,278	67	.....
Do. do. and temporary store-shed at Ayalore in do. ...	642	308	.....	308			308	19	.....
Repairs to anicut at Zorapore	327	14,484	.....	14,492			14,492	16,120	.....
Office, Store, and Workshop at Kurnool	30,612	15,168	.....	15,168			15,168	675	.....
Iron and Brass Foundry at do. ...	1,236	561	.....	561			561	57	.....
Room for receiving and despatching stores at do. ...	4,980	4,923	.....	4,923			4,923	20,356	718
Quarters for Sub-Assistant Engineers and Assistant Surveyors at Koondaur	91,098	74,439	21	74,460			74,460	.....	3,514
Engineer's bungalow at Dhoor	49,440	51,075	1,879	52,954			52,954	13,61,271	1,67,266
Total...	1,14,44,353	1,00,62,537	1,99,213	1,02,61,750	6		11,408	1,02,50,348	.....
Line of Telegraph	.....	.....	.....	.....			.....	.....	.....
Grand Total...	.....	.....	.....	.....			.....	.....	.....

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

20. *Quarter's Expenditure.*—This statement shows that the expenditure of the quarter was Rupees 1,99,213, and the net total outlay, up to 30th September 1870, Rupees 1,02,50,348.

21. *Excess Expenditure.*—The subjoined statement shows the expenditure in excess of sanction at the end of the quarter to have been Rupees 1,67,266 :—

Works.	Excess expenditure up to 30th June 1870.	Excess expenditure during the quarter ended 30th September 1870.	Total.	Add transferred to this from other works.	Deduct refunds.	Excess net expenditure on 30th Sept. 1870.
<i>Main Supply.</i>						
Hindry aqueduct ...	Rs. 72	Rs. 3	Rs. 75	Rs.	Rs.	Rs. 75
Anicut and head-works at Adimappully ...	13,021	13,465	13,465	60	179	13,405
Main Canal, 1st Section ...	1,22,558	3,555	21,576	10	10	21,537
Do., 2nd do. ...		5,603	1,28,161	6		1,28,157
Total...	1,40,651	22,626	1,63,277	6	249	1,63,028
<i>Buildings.</i>						
Office, Store-house, and Workshop at Soonkasala ...	39		39			39
Do. do. at Valapanoor ...	20		20			20
Do. do. at Jupad ...	659		659			659
Total...	718		718			718
<i>Telegraph.</i>						
Line of Telegraph ...	1,615		3,514			3,514
Grand Total...	1,43,004	24,505	1,67,509	6	249	1,67,266

22. *Preparation of revised estimates.*—A supplemental estimate for the 2nd Section, Main Canal, was sanctioned in Government Order, No. 2,782, of the 19th November 1870. The Agent was asked to explain the cause of the excess expenditure on the works marginally noted in order to enable this office to sanction them, they being within 5 per cent. of the sanctioned estimate. In reply, he has communicated a letter from the Executive Engineer, Mr. Carruthers, stating that "it will require a good deal of time to report on the reason of the excess expenditure," and that his "office staff is at present short-handed and not able to keep the regular work of the office in train."

With regard to the excess expenditure on the anicut and head works at Adimappully, and the line of telegraph from Soonkasala to Cuddapah, this office is in communication with the Agent.

A supplemental estimate for excess on Jupad buildings was returned to the Agent for explanation on the 10th June 1870, and has not been received back. His attention thereto was drawn on the 10th March 1871.

23. *Estimates submitted to Government during the quarter.*—The following estimates were received from the Agent and submitted to Government during the quarter :—

(1.) A bill of cost for clearing silt in the 1st Section, Main Canal, in 1870 ...	Rs.	A.	P.
(2.) Estimate for repairing office and store buildings at Soonkasala ...	2,365	14	0
	140	0	0

*Proceedings of the Madras Government, Public Works Department,
2nd June 1871.*

(3.) Plan and estimate for making necessary additions to the Appold's patent regulator ...	Rs.	A.	P.
(4.) Plans and estimates for distribution works in the 5th Section ...	30	0	0
(5.) Estimate for repairing a leak in the upper bank of the 18th mile, 2nd Section ...	16,550	0	0
(6.) Estimate for excavating sand in the bed of the Punkal Wunkah, and to clear the waterway of the aqueduct ...	58	0	0
(7.) Revised estimates for surplus sluices and waste weirs of the 8th Section ...	640	0	0
(8.) Do. do. for anicut and head-works at Soonkasala ...	42,447	0	0
(9.) Do. do. for anicut and head-works at Soonkasala ...	48,900	0	0
(10.) Plans and estimates for distribution works in the 2nd Range of 4th Section ...	17,847	14	0
(11.) Revised estimate for the completion of the 2nd Section, Main Canal ...	1,33,700	0	0
(12.) Do. do. for telegraph line from Soonkasala to Cuddapah ...			

24. *Estimates sanctioned.*—Of these, the first eight received the sanction of Government during the quarter, and the ninth and tenth were since sanctioned, and the last one was returned for revision.

25. *Cost of Establishments.*—The cost of executive permanent establishments, including that of establishments engaged in investigations in Bellary and for reservoirs, amounts for this quarter to 21.67 per cent. on the expenditure for construction, and that of the temporary establishments to .82 per cent., and that of general management to 10.93 per cent.

26. *Total cost of Establishments.*—The total cost of the permanent establishment was therefore 32.60, and of temporary establishments .82 per cent. on the expenditure.

No. 49. ORDER THEREON, 2nd June 1871, No. 1,510.

ORDERED that this report be forwarded to the Home Government.

IRRIGATION, No. 3.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Chief Engineer for Irrigation.
Agent and Manager of the Madras Irrigation and Canal Company.

Exd. E. C. Shunker.

Office of Chief Engineer
Madras 16 May 1911

24
To
The Chief Engineer
The Secretary to Government
Public Works Department

Have the honor to submit the following report on the progress made in the works of the Madras Irrigation and Canal Company during the quarter ended 30 September 1910.

2. There was a great falling off in the expenditure during the quarter as in the quarter ended 30 September 1909, which amounted to Rs. 1,99,213 against Rs. 4,42,201 in the previous quarter.

3. The expenditure on the work was Rs. 1,12,544 in the quarter ended 30 September 1910.

Repair of the breach in the north bank of the canal at the amount of Rs. 114-13-4.
Constructing a dam across the river above north bank breach at Rs. 297-8.
Grown at Boonhassala Rs. 297-8.

4. The expenditure on this work was
 Papers 2-11-10 for Hindry Aqueduct-
 special superintendence and sundries.

5. Papers 3554-10-2 were expended
 on the 1st Section of the Main Canal, 10 1/4 miles,
 the work done being:

Earthwork	Cy 230	627-15-4
Reinforcement & chinking		26--
Three weirs		12-14-8
Barry boat		23-2-3
Self-acting sluice and repairs		2538-8-1
Special superintendence & sundries		326-4-14

6. Papers 5603-1-4 were expended on
 the 2nd Section from the 10th to the 32nd mile, the items being:

Canal walls		147-14-8
Masonry wall & puddling		22933-14-2
Repairing & strengthening the right bank		2--
Between the Radabach Aqueduct and the slip in the 24 th mile		8-2-
Repairs & slip lower embankment		26-12-
20 th mile lower bank		300--
Water cushion		11111-
Protecting with a lining of puddle covered by a layer of shingle or rubble walls		3011-2-7
for stopping the leakage		2-8-
Contingencies		100-12-5

7. Papers 2749-2-5 were expended on
 the 3rd Section from the 33rd to the 45th mile, the details being:

Excavation & embankment	Cy 168	145-8-
Bridge 2 nd class close to work with 11 th 15 th mile		672--
at Cataniacotta		908-14-
at Mudigutta		653-14-
Suttenpore tunnel		462-14-5-
Contingencies for earth & masonry work		4-4-

8. Papers 896-4-6 were expended on
 the 4th Section of miles 44 to 60 of the Canal, the particulars being:

Excavation & embankment		25-12-
Reinforcement & pitching		147-6-
One weir		174-9-4-
Repairs & slip		461--
Contingencies		87-9-6

9. Papers 6719-11-2 were expended on
 the 5th Section of the Main Canal from the 61st to the 72nd mile, the items being:

Excavation & embankment	Cy 3190	104-15-9
Reinforcement		104-15-9
Calvert		7-10-13-7
Bridge 2 nd class at Sorkoot		7--
at Sorkoot		1315-1-9-4-
at Sorkoot		1372-10-15-8
at Sorkoot		128-8-4-8
at Sorkoot		118-13-8-7
at Sorkoot		4-1
at Sorkoot		6-8

10. Papers 40229-5-3 were expended on
 the 6th Section of miles 73 to 91, the items being:

Excavation & embankment	Cy 8650	7521-2-2
Reinforcement		22837-11-
Catch water drain		1995-3-2-8
Stop bank in the 82 nd 483 rd mile		248-7-7-9
Stop bank in the 73 rd mile		7-14-1
Self-acting sluice in the 73 rd mile		7-8-8
Head sluice		1967-8-10-5
Lock No. 2		640-5-
Lock No. 2		7832-14-5-
Lock No. 2		4379-8-
Lock No. 2		162-5-
Lock No. 2		1337-10-11-
Lock No. 2		2638-12-11-
Lock No. 2		Lock No.

Lock No. 8 at 127 1/2 miles
 127 15-8
 832-12-
 9A 87-12-
 10 169-9-
 11 177-7-
 12 2172-4-8
 Bridge 2 class at Valapamoot 2223-1-6
 Lock gate 104-8-2
 Contingencies 1043-14-6
 238-14-6

11. Papers 17546-11 were expended on the 7th Section, miles 92 to 111 for -

Embarkment & cutting Canal bank & closing foot path 1170-8-6
 Ament & head work 628-15-8
 Regulating Lock 3512-2-1
 4 Wash weirs 2090-13-4
 Bridge 2 class at 96 miles 1784-
 98 295-2-
 100 325-8-
 105 149-6-7
 107 at Ayala 47-13-7
 108 65-
 110 853-15-5
 112 1265-8-2
 5 Culverts 501-8-8
 Calingulak & Bridge 162-12-8
 Contingencies 89-6-10
 174-12-8

12. Papers 27730-13 were expended on the 8th Section, miles 115 to 140.

Embarkment & cutting Lock No. 1 at 115 miles Caly 14802 No. 3691-6-10
 2 117 3328-12-7
 3 118 3238-9-4
 4 119 2123-11-6
 5 121 3033-15-8
 6 122 2277-6-7
 7 123 14-8-9
 8 124 70-12-7
 9 125 33-15-11
 10 126 77-12-10
 10A 129 77-12-4
 189-7-7
 Lock

Lock No. 11 at 132 1/2 miles
 12 136
 13 137
 14 140
 15 142
 16 144
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15.9-00 The expenditure on this work was
 Rs 4,470-15-7. Adimappully Aricut.
 The items being -
 1. 1-00 Cement across the River at Adimappully Rs 1,500-4-2
 2. 2-00 Under sluices with side walls 4087-14-
 3. 3-00 Road down 1165-8-10
 4. 4-00 Flood bank on north end 4-2-
 5. 5-00 Stop bank on south including contour lines 2601-9-7
 6. 6-00 North wing wall 1200-12-

[illegible]

Papers 20-8 - were expended
 Buildings, namely: Buildings -
 Connecting the unfinished building intended
 for a gun powder manufacturing into a hospital 11-8-
 Office Store building at Chintagunda in 1861 1-2-
 Office Store & Work shop at Binnel 1-2-
 1861

Superior 2278 & 6 indirect expended
on the Telegraph Line from 1892
Supt. Cassa. & Quddupah
Telegraph

19. The following abstract shows the expenditure on all works from the commencement to the close of the quarter compared with the same period of the previous year.

Introduction	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	28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19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.	99.	100.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Amount	Expenditure	Cost	of	the	work	done	in	the	year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	28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26. The total cost of the permanent es-
tablishment was there. Total cost of establishments -
fore 32.60, and of temporary establishments.

Improvements of 1st. end approaching to the above	575	310	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	515	51
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82 percent on the expenditure -

Have the honor to be,
Sir,
Your most obedient servant,
Major D. R.
Chief Engineer, Government

20. This Statement shows that the expenditure of the quarter. Quarters expenditure was Rupees 199213 and the net total outlay up to 30th September 1870 Rupees 10257340.

21. The subjoined statement shows the expenditure in excess of. Excess expenditure -
caution at the end of the quarter & have been Rupees 167266.

	Excess expenditure - actual due up to 30 th June 1870	Excess expenditure - actual due up to 30 th Sept 1870	Add transfer from other works	Excess expenditure - actual due up to 30 th Sept 1870
<u>Main Supply</u>				
<u>Gravel Aggregates</u>	72	75		75
<u>Quint and Fuel at Adina</u>	13465	13468		13468
<u>Main Canal 1st Section</u>	18021	3555	21576	1179
<u>Do 2nd Section</u>	122558	5603	128161	128157
<u>Total</u>	140651	22626	163377	249
<u>Buildings</u>				
<u>Office Store House and Workshop at Poonkasala</u>	39	39		39
<u>Do at Talajanoor</u>	20	20		20
<u>Do at Japand</u>	659	659		659
<u>Total</u>	718	718		718
<u>Telegraph</u>				
<u>Wire of Telegraph</u>	1635	1579	5514	3514
<u>Grand Total</u>	142004	24509	167591	249

D. M. B.

Q. M. S. to English Club
 101 June 20th 1871
 1871

Franklin & Co. 111
 101 June 20th 1871
 1871

marked in the same font

Ordered that this should be done
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the first Congress for
 the Secretary to Government
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7/3 1892

PUBLIC WORKS.

25

Date.

Rev. A.

G. O. 2 June 1871, No. 1510

Nos. 48 & 49. —

John A. B. ...

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1940

[Faint handwritten notes]

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ended on Sept 20 -
 Wm. Van Dusen.
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