

- (1) பக்கங்களின் எண்ணிக்கை 14
 (2) புதுக்கித் திருப்பிய நாள் Seg-90
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 1694

தமிழ்நாடு ஆவணக் காப்பகம்.

(180)

தமிழ்நாடு அரசு

P-W-D துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	<u>1694</u>	அச்சகம் பலவகை
நாள் :	<u>24-6-1891</u>	<u>198</u>

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

7. sheets

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26TH MAY 1891, No. 454, REVENUE.

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

READ—the following :—

Letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 2nd March 1891, No. 243 :—

With reference to G.O., No. 472 W., dated 10th February 1888, I have the honour to forward, herewith, a statement showing quantities of earthwork at present available for execution by famine labour in certain districts of this Presidency.

2. Where a line traverses more than one district, the quantities have been distributed between the districts at the average mileage rate for the whole line, so that the figures for each district will not be strictly accurate although the totals will represent the quantities shown in the estimate for each line.

3. In addition to the earthwork, employment for a certain number of persons could be found in the collection of ballast, but as the quantity of this work which could be usefully done must depend on local circumstances, it is not possible to form an estimate thereof.

(Signed) SIDNEY SMITH, Major, R.E.,
for Offg. Consulting Engineer for Railways.

ENCLOSURE.

QUANTITIES of earthwork available for execution by famine labour in various districts of the Madras Presidency.

District.	Name of line.	Miles.	Cubic yards per mile.	Total.	Total in each district.
Malabar	Palghat-Dindigul	14	33,600	470,400	470,400
Coimbatore	Do.	42	33,600	1,411,200	1,411,200
Madura	Do.	44	33,600	1,478,400	1,478,400
Do.	Madura-Pamban	91½	37,600	3,434,133	4,912,533
Salem	Pôrto Novo-Salem	48½	29,400	1,425,900	1,425,900
South Arcot	Do.	68	29,400	1,999,200	1,999,200

From the Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated 20th February 1891.

I CIRCLE.

LIST No. 1.—Statement showing the Irrigation and connected works available in each district for the employment of famine labour during the year 1891-92—Nil.

(Signed) G. D. WYBROW,
Superintending Engineer, I Circle.

20th February 1891.

(Signed) G. D. WYBROW,
Superintending Engineer, I Circle.

To the Chief Engineer, Public Works Department.

A RECAPT statement from lists Nos. 1 and 2 showing the works in each district and the labour they will absorb.

20th February 1891.

To the Chief Engineer, Public Works Department.

(Signed) G. D. WYBROW,
Superintending Engineer, I Circle.

List No. 1.—Statement showing the Irrigation and connected works available in each district for the employment of famine labour for 1891-92.

District.	Name of work.	AMOUNT OF ESTIMATES REMAINING TO BE WORKED OUT.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.			
1	2	3	4	5	6	7	8
Ganjam ..	1. Ganjam-Gopálpur canal ..	2,09,630	41,800	2,51,430	8,000	5	Excavation of this canal was taken up as a famine relief work in 1889 and about three-tenths of the work was done. Further progress was stopped after cessation of the famine, the completion of the canal having, in G.O., No. 598 I., dated 4th December 1889, been considered unnecessary as the proposed East Coast Railway will run close to the line of the canal. Estimates sanctioned by the Secretary of State and certain alterations being found necessary in the designs for works, revised estimates have been submitted to the Secretary of State for sanction.
Kistna ..	2. Rushikulya project ..	2,67,361	14,90,861	17,48,322	10,000	5½	These are parts of the completion estimates sanctioned for the Kistna delta—vide Proceedings of Madras Government, No. 62 I., dated 11th February 1889.
Nellore ..	Tungabhadra drain ..	41,355	..	41,355	1,200	6	G.O., No. 648 I., dated 8th November 1890. G.O., No. 206 I., dated 4th March 1891. G.O., No. 504 I., dated 11th September 1890. G.O., No. 277 I., dated 21st March 1891. Estimate has been prepared G.O., No. 563 I., dated 8th October 1890.
	Nallamada affluent ..	81,574	..	81,574	2,000	6	
	Main canal, Western delta ..	1,82,275	..	1,82,275	15,000	3	
	Bank canal, Eastern delta ..	2,04,215	..	2,04,215	5,000	8	
	Lazabanda drain ..	3,607	..	3,607	2,000	2	
	Rampu drain and affluents ..	1,22,679	..	1,22,679	5,000	5	
	Répalu drain and affluents ..	58,232	..	58,232	2,500	5	
	Unupudi drain ..	6,298	..	6,298	300	4	
	Kanakolu drain ..	14,687	..	14,687	700	4	
	Telera drain ..	16,667	..	16,667	800	4	
	Gudimoti drain ..	4,500	..	4,500	200	4	
	Pedakanka drain and affluents ..	29,971	..	29,971	1,500	4	
	Sultangaram drain ..	2,415	..	2,415	100	4	
	Bank canal, Western delta ..	58,232	..	58,232	2,400	5	
	Bhatiprole drain ..	28,166	..	28,166	1,400	4	
Nellore ..	Nizampalam drain ..	6,801	..	6,801	300	4	
	Bantumilli canal extension ..	56,344	..	56,344	2,800	4	
	Buckingham canal diversion near Kunda- lern between 89½ and 89 miles.	15,700	..	15,700	800	4	
	Buckingham canal diversion at Dugariz- patnam.	21,500	..	21,500	1,100	4	
	Buckingham canal, Pennér south diversion.	22,500	..	22,500	1,100	4	
	Griddalore tank, improvements ..	6,833	..	6,833	300	4	
	Medanur do.	12,929	..	12,929	600	4	
	Inakam island embankment in the Pulicat lake.	17,800	..	17,800	900	4	

List No. 1.—Statement showing the Irrigation and connected works available in each district for the employment of famine labour for 1891-92—cont.

District.	Name of work.	AMOUNT OF ESTIMATES REMAINING TO BE WORKED OUT.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.			
1	2	3	4	5	6	7	8
Anantapur ..	5. Roddam project ..	48,280	54,940	1,03,220	2,400	MONTHS 4	This project provides for an ancient across the Pennér to supply Roddam large tank. Preliminary investigation of this project was made by Mr. Garrett when he was in charge of the "C" Project division. The estimates for masonry works may be allowed to stand, but the channel portion will require revision. The Superintendent Engineer, III Circle, estimates the net return at a little over 2 per cent. If required, it could be submitted in a complete shape in about three months.
Colombators ..	Do. do. extension ..	1,60,800	1,25,000	2,85,800	3,500	9	The proposal is to improve bed-fall, provide efficient sluices and reduce the existing number of sluices and extend the channel about 33 miles so as to bring about 15,000 acres of land under wet cultivation, including 5,000 acres now irrigated by the Pugalur channel. Estimates have been sanctioned by the Secretary of State—vide Proceedings of Madras Government, No. 279 I., dated 21st March 1891.
	Kalingaroyen channel improvements ..	1,60,800	1,35,400	2,96,200	3,800	13	
Chingleput ..	Buckingham canal diversion from Chinta- money backwater to Pulicat lake	37,200	5,400	42,600	1,200	6	Estimate has been received and will be dealt with shortly.
Chingleput (Tiru- valler taluk) ..	Varadupalliam tank ..	430	220	650	84	1	Available for departmental work. It is close to Kadur and Kam- bakam tanks.
North Arcot ..	Uthokkoftai tank ..	3,800	..	3,800	250	3	These tanks need repairs.
	Pallarambakkam tank ..	2,168	..	2,168	220	2	
South Arcot ..	Vadamadurai tank ..	2,410	..	2,410	240	2	Much of the earthwork is rock and hard gravel unsuited for famine labour. The work is in progress.
	Cheyér main channel ..	75,000	15,000	90,000	5,000	8	
Do. ..	Chidambaram tank drainage scheme as from 18th to 30th mile.	93,345	..	93,345	1,600	12	Estimates will be sanctioned shortly. G.O., No. 169 I., of 26th March 1889.
Trichinopoly ..	Coleroon left bank from the bridge to Nan- diyar ancient.	28,270	11,568	39,838	1,100	6	Estimate of Rs. 89,500 sanctioned in G.O., No. 567 I., dated 7th October 1890. Work is now being done on contract.
Tinnevely ..	Cauvery right bank from Cauvery bridge at Trichinopoly to the old Venmar head, raising and strengthening.	4,000	..	4,000	800	1	G.O., No. 72 I., dated 7th February 1890.
	Agunda-Cauvery R.B. from Anaravati junc- tion to 11½ mile, raising.	7,270	5,730	13,000	480	3	G.O., No. 439 I., dated 18th August 1890. Work on contract.
	Nandiyar channel, extension ..	23,100	3,700	26,800	1,150	4	G.O., No. 245II., dated 13th March 1891.
	Ponnéri leading channel, excavating the— Srivilliputur-Periyakulam, repairs ..	8,543	..	8,543	850	2	Estimate ready.
Tinnevely ..	Madamadai-Periyakulam and its supply chan- nel repairs.	2,875	300	3,175	300	2	Estimate sanctioned under Tank Restoration Scheme.
	..	4,130	440	4,570	300	3	do. do.

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List No. 2.—Statement showing the Irrigation and connected works which may be made available in each district for the employment of famine labour for 1891-92—*cont.*

The number of coolies entered is exclusive of the great reservoir which, if carried on, would have to be constructed with greater care and skill than could be expected from famine labour. This project comprises the construction of a tank or reservoir with storage capacity, 4,420 millions of cubic feet, length 7½ miles, greatest width 4½ miles and area 9½ square miles, near the ruined village of Annamalakki in the Yernagudem taluk. It is 6 miles north of Nallacheri, a large village on the trunk road between Elore and Rajahmundry. The site is feverish in wet weather. It will be supplied from the Yernacalva, a river which gets its principal supply from the south-west monsoon. It has been suggested that the reservoir will act as a flood moderator to the drainage of the Yernacalva which enters the western sector of the Godavari delta under the Nundamur aqueduct at the head of the Elore canal and has several times endangered the safety of some of the delta canals. The reservoir is intended to irrigate 45,000 acres. The estimates for the project, which were prepared by Captain Dordard, R.E., in 1873, require revision.

List No. 2.—Statement showing the Irrigation and connected works which may be made available in each district for the employment of famine labour for 1891-92—*cont.*

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District.	Name of work.	PROBABLE AMOUNT OF ESTIMATES.				Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.		Other works.	Total.			
		3	4					
Nellore—cont.	Moldavi drain, improvements	Rs. 18,560	Rs. 4,000	Rs. 18,560	1,500	4 MONTHS.	Estimate has been received. } Approximate estimates. This project is for feeding the Bookacheria, Singanamalla and Anantapur tanks from the Pennér river. This project needs revision; it is thought it is far from being one likely, even if practicable, to give any return to speak of. This project is to store water for irrigating 600 acres of land; partly investigated prior to 1877, and now under revision. To supply Porumamilla and Badvel tanks from an amount across the Suggaliar. Plans and estimates have been prepared, but will require considerable revision.	
Anantapur	Embankment to Swarnamukhi	20,000	..	20,000	1,000	4		
	Bookacheria project	30,000	..	30,000	1,500	4		
		13,98,560	1,96,440	15,95,000	12,000	24		
Cuddapah	Potalakonta project	12,000	4,000	16,000	600	4	Ruined tank. Under investigation. Do. Under investigation. Estimate under preparation in the Executive Engineer's office. No levels ready. This will be a modification of the late Madras Irrigation and Canal Company's proposed extension of the canal, 11th and 12th sections. Being investigated. These are branch channels from the Kur-nool-Cuddapah canal. } Being investigated. This will be required if the Velgode project be taken in hand. This project is a scheme to extend irrigation in the Krishnagiri taluk by means of a large reservoir to be supplied from the Pennér. A preliminary report was made and the project was roughly estimated to yield a return of 5 per cent. on direct charges by irrigating 90,000 acres. The preparation of detailed plans and estimates was authorized, but no progress has been made as the "B. Project" division was abolished. The site selected is on the Swathanadi river, a short distance above the village of Goodamally, Atotuk. At the site proposed for the dam the river drains 150 square miles. Site examined and favourably reported on in 1878; nothing done since.	
	Suggaliar project	2,59,290	2,39,840	5,49,130	4,300	12		
	Kanchalamma tank	..	..	..	..	..		
	Patnam-Rungavay tank	..	..	..	..	..		
	Chelanreddi-Venimitta tank	..	..	..	..	..	No levels ready. This will be a modification of the late Madras Irrigation and Canal Company's proposed extension of the canal, 11th and 12th sections. Being investigated. These are branch channels from the Kur-nool-Cuddapah canal. } Being investigated. This will be required if the Velgode project be taken in hand. This project is a scheme to extend irrigation in the Krishnagiri taluk by means of a large reservoir to be supplied from the Pennér. A preliminary report was made and the project was roughly estimated to yield a return of 5 per cent. on direct charges by irrigating 90,000 acres. The preparation of detailed plans and estimates was authorized, but no progress has been made as the "B. Project" division was abolished. The site selected is on the Swathanadi river, a short distance above the village of Goodamally, Atotuk. At the site proposed for the dam the river drains 150 square miles. Site examined and favourably reported on in 1878; nothing done since.	
	Kurnool-Cuddapah canal from lock No. 31 to near Veiladar aqueduct.	45,000	..	45,000	1,500	6		
	Padma Cuddapah project with extension to Pennér river.	70,000	30,000	1,00,000	3,000	5		
Kurnool	Velgode project	1,50,000	1,50,000	3,00,000	4,000	8		
	Madikoor do.	1,50,000	50,000	2,00,000	6,000	6	No levels ready. This will be a modification of the late Madras Irrigation and Canal Company's proposed extension of the canal, 11th and 12th sections. Being investigated. These are branch channels from the Kur-nool-Cuddapah canal. } Being investigated. This will be required if the Velgode project be taken in hand. This project is a scheme to extend irrigation in the Krishnagiri taluk by means of a large reservoir to be supplied from the Pennér. A preliminary report was made and the project was roughly estimated to yield a return of 5 per cent. on direct charges by irrigating 90,000 acres. The preparation of detailed plans and estimates was authorized, but no progress has been made as the "B. Project" division was abolished. The site selected is on the Swathanadi river, a short distance above the village of Goodamally, Atotuk. At the site proposed for the dam the river drains 150 square miles. Site examined and favourably reported on in 1878; nothing done since.	
	Markapur tank	..	..	..	..	..		
	Duvular project	25,000	..	25,000	1,000	5		
	Kurnool-Cuddapah canal between Simlessa and Kurnool—widening.	7,80,000	22,20,000	30,00,000	3,700	42		
Salem	Krishnagiri reservoir	..	..	..	..	..	No levels ready. This will be a modification of the late Madras Irrigation and Canal Company's proposed extension of the canal, 11th and 12th sections. Being investigated. These are branch channels from the Kur-nool-Cuddapah canal. } Being investigated. This will be required if the Velgode project be taken in hand. This project is a scheme to extend irrigation in the Krishnagiri taluk by means of a large reservoir to be supplied from the Pennér. A preliminary report was made and the project was roughly estimated to yield a return of 5 per cent. on direct charges by irrigating 90,000 acres. The preparation of detailed plans and estimates was authorized, but no progress has been made as the "B. Project" division was abolished. The site selected is on the Swathanadi river, a short distance above the village of Goodamally, Atotuk. At the site proposed for the dam the river drains 150 square miles. Site examined and favourably reported on in 1878; nothing done since.	
	Goodamally reservoir	1,50,000	2,00,000	3,50,000	3,750	8		

26TH MAY 1891, No. 454, REVENUE.

District.	Name of work.	PESSIBLE AMOUNT OF ESTIMATES.				Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.				
1	2	3	4	5	6	7	8	
Salem—cont.	Malapady tank restoration	RS. 44,000	RS. 23,000	RS. 67,000	2,200	MONTHS. 4		This tank was ruined a very long time ago. It was inspected early in 1975 and its circumstances ascertained and it was considered that Mr. Blacker's project for its restoration, the only one it is believed in existence, required to be recast. The ground which this tank, if restored, would occupy, is much of it irrigated from the river and most of the remainder is under dry cultivation. This project was examined and set aside some years ago as unremunerative.
	Badakaloo project	38,000	75,000	1,13,000	1,500	5		This project provides for the enlargement of the tank from a capacity of 4-8½ millions of cubic yards to 16½ millions and for supplementing its supply from a drainage basin of between 20 and 28 square miles by cutting a supply channel 1¼ miles in length from the Kurumbapally river which drains 650 square miles of country; also of constructing distributary channels under the tank. The increase of revenue was estimated at Rs. 11,000 per annum. This project was examined and set aside as it was considered unremunerative.
	Vaniar reservoir	5,54,000	5,06,000	10,60,000	3,700	30		The site proposed for this reservoir is situated at the foot of the Shevaroy Hills in Uttankarai taluk, Salem district. It is estimated that the proposed reservoir will irrigate about 8,700 acres. The project is not likely to prove remunerative, but it may be put in hand if the necessity for famine relief arises. Plans and estimates have, it is said, been prepared, but have not been forwarded for sanction.
Coimbatore	Calinjimadi channel extension	33,000	67,000	1,00,000	3,300	2		The proposal is to extend the channel to irrigate more lands and to also improve its alignment.
	Bhavani reservoir project	16,00,000	25,50,000	44,50,000	4,000	80		The proposal is to form a reservoir by damming the Bhavani river from this reservoir, channel will be let commanding all the land now irrigated by the channels from the Sanyamangalan, and Bhavani anicuts and a considerable area in addition. The reservoir would also be useful in supplementing the supply to the Canvey so as to prevent loss in the Tanjore delta during the interval between the two monsoons. Project partially worked out.
Chingleput	Kortalayur river embankment below the anicut.	8,100	..	8,100	1,000	1½		To prevent the river, when in high flood, overflowing its banks and destroying crops and breaching Local Fund roads.
	Vayalur project	24,737	12,263	37,000	1,000	5		This project is for a channel to be taken off from the Kortalayur river at 1¼ miles below the northern trunk road. The channel is to supply 18 tanks on the left bank of the river and it will finally enter the Vayalur large tank. In many years there would be no water to speak of to be spared from the river which supplies the Red Hills tank system.
	Uttamerut tank supply channel—widening and deepening.	20,000	31,000	51,000	1,500	3		To ensure an efficient supply.

List No. 2.—Statement showing the Irrigation and connected works which may be made available in each district for the employment of famine labour for 1891-92—*cont.*

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26TH MAY 1891, No. 454, REVENUE.

District.	Name of work.	PROBABLE AMOUNT OF ESTIMATES.				Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.				
1	2	3	4	5	6	7	8	
Chingleput— <i>cont.</i>	Narayana river embankments and irrigation extension.	RS. 1,71,762	RS. 62,348	RS. 2,34,110	4,000	MONTHS. 8		In 1869-70 an Assistant Engineer was employed to investigate the capabilities of this river. The water-supply was found precarious and none of the projects proposed in connection with it were likely to be remunerative. The projects were therefore laid aside until some officers might be available to see whether any alternative arrangements were feasible. The project is to improve the existing irrigation distributary channels and required to be investigated. The outlay is likely to be beneficial in increasing the revenue. To supply 70 tanks with distributaries. To prevent serious flood damages to villages and fields. The silt which is annually removed from the channels is deposited on high banks at the head of the channels. The proposal is to remove it to the river bed. The channel banks are now impassable. This bill stream supplies the Polar tank during floods. Water spills over the bank where it is low. To prevent this the bank should be raised on both sides where necessary. To supply tanks.
North Arcot	Tennér tank project	10,000	10,000	20,000	1,000	2		
	Kuvam tank improvements	6,640	4,810	11,450	1,000	1		
	Edaimichi channel	30,000	30,000	60,000	2,000	3		
	Palar flood bank improvements	20,000	9,600	29,600	2,000	2		
	Palar anicut channels—removing deposit of sand at head.	..	..	..	2,000	7		
	Poincy anicut channels—removing deposit of sand at head.	..	..	..	1,000	6		
	Rajakal channel—clearing prickly-pear	4,000	..	4,000	200	4		
	Munjalar embankment	5,000	2,000	7,000	200	6		
	Channel from Tholapadu to Kolathur tank. Do. from Chengodu Vellary to Thatchangal tank.	1,500	..	1,500	100	3		
	Gadilam-Athur anicut project	30,000	21,728	51,728	500	12		This is a small project for which surveys and levels were taken some years ago. The estimate was returned to the District Engineer in 1873, but nothing has been done since. For the supply of tanks on the north bank of the Ponnar below site of the proposed anicut. The plans and estimates prepared in 1871 require revision. Surveys are in progress. The project was investigated in 1870-71 for constructing an anicut across the Periyar or Varahanady for the supply of about 12 villages and is now again being looked into. An estimate for survey establishment required to investigate the project has been sanctioned. The channels are intended for the better supply of tanks in the Villupuram taluk. The channels are being surveyed by the tank Restoration Party. The channel was excavated many years ago to supply six tanks whose total ayacut is 1,553 acres and assessment Rs. 8,809. The length of the channel is 9 miles and it branches from the Ponnar river three-fourths of a mile east of trunk road No. 8. The channel is much silted and very irregular.
South Arcot	Second anicut across the Ponnar near Pattambakam.	40,000	51,270	91,270	500	16		
	Beddikuppam anicut project	10,000	16,100	26,100	500	4		
	Channels from the Ponnar to Villapuram	20,000	30,000	50,000	500	8		
	Vathanur channel project	..	..	..	..	..		

List No. 2.—Statement showing the Irrigation and connected works which may be made available in each district for the employment of famine labour for 1891-92—*cont.*

26TH MAY 1891, No. 454, REVENUE.

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District.	Name of work.	PROBABLE AMOUNT OF ESTIMATES.				Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.				
1	2	3	4	5	6	7	8	
South Arcot— <i>cont.</i>	Pallagacherry anicut project	RS. ..	RS. ..	RS. ..	..	MONTHS. ..		Levels taken and plans prepared, both incompletely. The project is divided into two parts, the first comprises an anicut over the Trimmannothanay with two main channels, one on the north bank, 7½ miles long, supplying six tanks, another on south bank, 3½ miles in length, for direct irrigation, there being no tanks or other means of supply. The second part of the project is the extension of the channel on the north bank, 7½ miles long, to supply eight tanks, bringing under cultivation 1,000 cawnies of purish and waste land which will yield a revenue of Rs. 5,000, but the exact amount is expected to be very expensive and quite unremunerative. See Proceedings of Madras Government, No. 2415, dated 2nd October 1873. The project was intended to be carried out by a palayagar—side Proceedings of the Board of Revenue, No. 113, of 4th February 1888. This project is for constructing an anicut across the Mayuradi, a minor tributary of the Vellar, for supplying the tank of the Yendur village belonging to the palayagar. An estimate of Rs. 17,950 for constructing the anicut and digging a new channel from it to the tank was prepared. Surveys and levels, plans and estimates prepared, but considered unreliable. It provides for the improvement of the northern main channel for supply of water to six more villages. Surveys taken and the project is under reinvestigation. Survey and levels for a portion of the channel were taken, but not checked. The project will have to be investigated again. The channel is intended for a better supply of water. The Nandan volkal received its supply by the diverting of the waters of the Thuringalur river at a place about half a mile of Tundivanam-Tiruvannamalai road. It is a very old channel and much silted and overgrown with jungle scrub, &c. It is proposed to restore it for the supply of water to certain tanks. The line was surveyed and estimated for before 1879. The plans and estimates prepared by the Chief Engineer for Mr. Lobb, are under consideration by the Chief Engineer for Irrigation. For straightening the river from Tiruvallur to the sea. Rough estimate. River not yet surveyed.
Tanjore and South Arcot.	Yenthal anicut project	..	..	..	..	..		
	Extension of Viddhachalam anicut channel.	..	..	..	..	..		
	Alakur anicut main channel	..	..	..	..	..		
	Restoration of the Nandan volkal from the Thuringalur anicut.	..	..	..	..	..		
Tanjore	Buckingham canal extension, Thanbakkam to Kattukuppam and in the French territory between 163 and 19½ miles.	4,16,022	1,47,200	5,63,222	6,250	12		
Tanjore	Coleroon embankment, improvements	6,67,353	6,69,712	13,37,065	18,900	6		
	Veddar, straightening the course of the	96,600	27,000	1,22,600	3,200	6		
	Corayaur do.	96,600	27,000	1,22,600	3,200	6		
	Palavar do.	1,90,000	..	1,90,000	5,000	4		

List No. 2.—Statement showing the Irrigation and connected works which may be made available in each district for the employment of famine labour for 1891-92—cont.

12

26TH MAY 1891, No. 454, REVENUE.

District.	Name of work.	PROBABLE AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earth works.	Other works.	Total.			
1	2	3	4	5	6	7	8
Trichinopoly	Wyacondan channel—clearing the bed and raising the bank, &c., of the —	Rs. 20,000	Rs. ..	Rs. 20,000	1,000	4 MONTHS.	Approximate estimate.
Timoreilly	Tiruchendur drainage channel, clearing ..	4,000	1,000	5,000	300	3	Do.
	Opaidram—Periyakulam new supply chan- nel, cutting.	15,000	15,000	30,000	800	5	The work will be given to the Tank Restoration Scheme for in- vestigation when the party is moved to the neighbourhood.
	Tambiraparani river, widening ..	89,000	..	89,000	4,500	4	The work would prevent scour along right bank above Athur in 12th mile below Srivakuntham anicut. Approximate estimate.
	Kollangundam—Periyakulam, improving ..	1,500	2,500	4,000	1,000	3	Approximate estimate.
	Elanthalavakondan old supply channel, impro- ving.	2,500	2,000	4,500	150	3	Do.

N.B.—The number of coolies entered in column 6 has been arrived at by dividing the amounts of estimates for earthwork by five times the number of months in column 7, assuming an average rate of Rs. 5 a month for each cooly. The results have been rounded off.

No. 18 W.

Forwarded to the Joint Secretary to Government, Public Works Department,
General Branch, with reference to G.O., No. 472 W., dated 10th February 1888.

OOTACAMUND,
20th April 1891.

(Signed) G. T. WALCH,
Chief Engineer for Irrigation.

26TH MAY 1891, No. 454, REVENUE.

13

No. 154 D.

MEMORANDUM.

Forwarded to the Revenue Department with reference to G.O., No. 472 W., dated 10th February 1888.

2. The returns under Buildings and roads received from Superintending Engineers other than the Superintending Engineer, I Circle, are nil.

OOTACAMUND,
6th May 1891.

(Signed) A. C. SMITH, Lieut.-Col., R.E.,
Ag. Joint Secretary to Govt., P.W.D.

To the Revenue Department, with papers in original.

ORDER—dated 26th May 1891, No. 454, Revenue.

Miscellaneous.

Ordered that the lists of Professional Agency works received with the memorandum read above be forwarded to the Government of India.

(True Extract.)

Ch. C. M.
Secretary to Government.

To the Public Works Department.
„ the Commissioner of Revenue Settlement, Land Records and Agriculture.
Copy to the Local and Municipal Department.

Exd. A. Aubert.

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REVENUE.

No. 1694 Wd/24 June 1891

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Encl.

G.O., 26th May 1891, No. 454.

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S. Engin
C. R. J.
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R. S.

MAY.

Famine relief.

Ordered that the lists of Professional Agency works available for — in certain districts during the year 1891-92 be forwarded to the Government of India.

(7)

25/6
26/6
20. VI