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Public (1888) DEPARTMENT.

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Govt. of (1888) Madras.
REVENUE.

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Issued
Recd. 30/11/88 Encl.

G.O., 10th November 1888, No. 780.



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NOVEMBER.

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Regulation for Secy
for Secy on 21-12-88

Famine Relief Works.

Lists of Professional Agency — received from the Public Works Department, ordered to be forwarded to the Government of India.

With order
With order
20/12/88

Col 15/11
R. 17/11
22/12 3/10/12

With order

the 3 22 447 Mrs

Public (1888) DEPARTMENT.

10TH NOVEMBER 1888, No. 780, REVENUE.

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

Read—the following Endorsement of the Public Works Department, dated 10th September 1888, No. 645-D. :—

Read—the following letter from Major W. H. COAKER, R.E., Officiating Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Ootacamund, 22nd June 1888, No. 204 :—

With reference to G.O., dated 10th February 1888, No. 472 W., I have the honor to forward a statement showing quantities of earthwork at present available for execution by famine labor 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. The construction of the Villupuram-Pakal and Tirupati-Dharmavaram lines will probably be undertaken by the South Indian Railway shortly.

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.

4. From Proceedings of Government, dated 29th March 1886, No. 263 R., it appears that the average quantity of earthwork done by each cooly on the Hindupur extension was a little over one cubic yard per day, which may be assumed as a fair task in calculating the number of persons for whom employment could be found for any given length of time.

ENCLOSURE.

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

District.	Name of line.	Miles.	Cubic yards per mile.	Total.	Total in each district.
Malabar	Pálghat-Dindigul	14	33,600	CUB. YDS. 470,400	CUB. YDS. 470,400
Coimbatore	Do.	42	33,600	1,411,200	1,411,200
Madura	Do.	44	33,600	1,478,400	4,912,533
Do.	Madura-Pámban	91½	37,600	3,434,133	
Salem	Porto Novo-Salem	48½	29,400	1,425,500	1,425,900
South Arcot	Do.	68	29,400	1,998,200	3,649,200
Do.	Villupuram-Pakal	55	30,000	1,650,000	
North Arcot	Do.	80	30,000	2,400,000	3,918,000
Do.	Tirupati-Dharmavaram ..	46	33,000	1,518,000	
Cuddapah	Do.	106	33,000	3,498,000	3,498,000
Anantapur	Do.	14	33,000	462,000	2,470,800
Do.	Guntakal-Hindupur	* 62	32,400	2,008,800	
Total ..		670½	..	21,756,033	21,756,033

* Total length of line 111 miles; the earthwork of 49 miles was completed in 1885.

Read—also the following Endorsement of the Chief Engineer for Irrigation on lists of projects which are and may be made available for famine relief labor :—

No. 29 W.

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

CHEPÁK,
5th September 1888.

(Signed) H. R. MEAD, Col., R.E.,
Chief Engineer for Irrigation.

Col 13/11
R. 17/11

With Order

List No. 1.—Statement showing the irrigation and connected works available in each district for the employment of famine labor.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
Ganjam ..	Ganjam-Gopálpur canal ..	RS. 2,95,000	RS. 55,700	RS. 3,50,700	7,300	MONTHS. 8	Estimates sanctioned by the Secretary of State. Work not to be commenced till the Rushikulya project is further advanced.
	Rushikulya project ..	8,26,210	22,65,090	30,91,300	13,800	12	Estimates sanctioned by the Secretary of State and work in progress. The sanctioned rates being insufficient and certain alterations being found necessary in the designs for works, revised estimates have been prepared and will be submitted for sanction as soon as the revised forecast statements of revenue and expenditure have been returned by the Collector duly approved and countersigned.
Anantapur ..	Hindupur project ..	1,10,200	58,850	1,69,050	3,500	6	This project is for supplying eleven tanks by building an anicut across the Pennér river. Preliminary investigation of this project was made by Mr. Garrett. The Superintending Engineer, III Circle, considers that it may possibly pay 2½ per cent. As a protective work its effect would be insignificant.
	Roddam project ..	48,280	54,940	1,03,220	2,400	4	This project provides for an anicut 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 Superintending Engineer, III Circle, estimates the net return at a little over 2 per cent. Both financially and as a relief work, it is to be preferred to the Hindupur project. If required it could be submitted in a complete shape in three months.
Bellary ..	Tungabhadra channels— Upper section .. Lower section ..	29,15,103 59,850	1,92,159 4,99,515	31,07,262 5,59,365	25,000	24	This project is to take off a channel from the river at Vallabapur to Darojee tank to irrigate 50,000 acres and to supply the town of Bellary with fresh water. Requires considerable revision. Further investigation stopped until an officer can be made available.
Cuddapah ..	Suggaliar project ..	2,59,290	2,89,840	5,49,130	4,300	12	To supply Pórumámilla and Badvel tanks by an anicut across the Suggaliar. Plans and estimates have been prepared, but will require considerable revision. The project is likely to be a paying one.

Statement showing the irrigation and connected works available in each district for the employment of famine labor—cont.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.		Total.			
		3	4				
1	2			5	6	7	8
Kurnool ..	Tongadancha tank diversion ..	RS. 36,959	RS. 17,941	RS. 54,900	1,200	MONTHS. 6	During the prevalence of westerly winds, which are very violent, the waves stop traffic and endanger the tanks; serious breaches have occurred. It is, therefore, proposed to make a new channel from below the Ballavaram bridge at 59-33 to above the drainage culvert at 61-1 on the Kurnool canal. Estimates are prepared, but require some revision. This work is very suitable for a relief work.
Coimbatore ..	Calingaroyen channel improvements Do. extension ..	1,60,800 2,44,800	1,26,000 1,35,400	2,86,800 3,80,200	3,500 3,800	9 13	The proposal to improve bedfall, provide efficient sluices and reduce the existing number of sluices and extend the channel about 33 miles to bring about 15,000 acres of land under wet cultivation, including 5,000 acres now irrigated by the Pugalur channel. Estimates have been submitted for the sanction of the Government of India (<i>vide</i> G.O., No. 332 I, dated 8th June 1888).
	Bhavani reservoir project ..	16,00,000	28,50,000	44,50,000	4,000	84	The idea is to form a reservoir by bunding across the Bhavani river; from this reservoir channels will be led commanding all the land now irrigated by the channels from the Satyamangalam and Bhavani anicuts, and a considerable area in addition. The reservoir would also, it is supposed, be useful to supplement the supply to the Cauvery so as to prevent loss in the Tanjore delta during the interval between the two monsoons. Project partially worked out; left so that it can be taken up without delay when necessity arises.
Salem ..	Marandahally project ..	1,03,000	2,07,000	3,10,000	3,500	6	Plans and estimates received. The project is not a productive one and it is useless to submit it for sanction at the present time as a protective work; it will be useful as a relief work in time of famine.
	Krishnagiri reservoir	7,80,000	22,20,000	30,00,000	3,700	42	This project is a scheme to extend irrigation in the Krishnagiri taluk of the Salem district by means of a large reservoir to be supplied from the Pennar. A preliminary report was made and the project was roughly estimated to yield a return of 5 per cent. on direct charges by irrigating 50,000 acres. The preparation of detailed plans and estimates was authorized, but no progress has been made as the "B" Project Division was abolished.

Remarks.

List No. 2.—Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
Vizagapatam ..	Surada and Varaha rivers—irrigation works.	RS. ..	RS. ..	RS. ..	..	MONTHS. ..	Not yet investigated thoroughly. The project does not appear to be a favorable one. The project was partially investigated by the "A" Project Division and further investigation was stopped on the abolition of that division. The canal will have to cross the Yelluru river by a weir with flood gates on either side of the river. Colonel J. O. Hasted, R.E., placed on record that should this project be taken up again, the question whether a tidal canal would not be preferable should be considered; the proposed canal might be difficult to supply. 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 labor. This project comprises the construction of a tank or reservoir with storage capacity, 4,490 millions of cubic feet, length 7½ miles, greatest width 4½ miles, and area 9½ square miles, near the ruined village of Anumalanka in the Yernagudem taluk. It is six miles north of Nallacheri, a large village on the trunk road between Ellore and Rajahmundry. The site is feverish in wet weather. It will be supplied from the Yerra culva, a perennial 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 Yerra culva, which enters the western section of the Godavari delta under the Nundamur aqueduct at the head of the Ellore 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 Dorward, R.E., in 1873 require revision. No estimates have been prepared.
Godavari ..	Canal from Samalkot towards Tuni (37 miles long).	..	..	4,00,000	10,000	8	
	Anumalanka project channels	..	..	9,00,000	7,000	8	
	Widening all Godavari river embankments to fit them for roads. Bhadrachalam boat canal	2,89,150	1,66,150	4,55,300	13,000 7,200	8 8	In 1878 an estimate was sanctioned for this canal and in 1882 an alternative line was investigated, but the execution of work was condemned on either line except as a relief work in case of famine in the Bhadrachalam and Rékapalli taluks.

Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor—cont.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
Anantapur ..	Bookacherla project	RS. 13,98,560	RS. 1,96,440	RS. 15,95,000	12,000	MONTHS. 24	This project is for feeding the Bookacherla, Singanamalla, and Anantapur tanks from the Pennar 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. To store water for irrigating 600 acres of land. Partially investigated prior to 1877. Nothing done since. These projects were investigated by the late Madras Irrigation and Canal Company's officers prior to 1870, but nothing has been done since. Now that the Tirupati-Nellore Railway line has been constructed, a canal communication in this part of the country does not seem very desirable. The return from the work will be insignificant. The proposal is to extend the channel to irrigate more lands, and also improve its alignment.
Kurnool ..	Potalakonta project	12,000	4,000	16,000	600	*	
	Extension of Kurnool canal as per company's estimates— 11th section (190 to 207 miles) 12th section (208 to 234 do.)	2,03,873 3,09,420	6,32,163 10,94,328	8,38,036 13,63,748	6,800 6,900	6 9	
Coimbatore ..	Calinjivadi channel extension	33,000	67,000	1,00,000	3,300	2	This is under investigation. Restoring the Serukalay tank by putting in order all the upper tanks belonging to the group. Assistant Engineer was employed in investigating 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 officer might be available to see whether any alternative arrangements were feasible. In G.O., No. 307 W., dated 27th January 1879, the survey was ordered to be discontinued and the observations already taken to be recorded for future use, as the work was not likely to be remunerative. Besides the existing anicut on the Cheyér river, the surveys of two more projects connected with the same river were reported in 1869 to have advanced to a stage which would enable a skilful officer to use them as a basis for a general design for the works (vide paragraph 24 of the Note printed with G.O., No. 247, dated 27th January 1869). No investigation of the projects has been made.
Salem ..	Serukalay tank restoration	33,000	17,000	50,000	1,650	4	
Chingleput ..	Narayanareswar river irrigation extension project.	2,20,000	80,000	3,00,000	15,000	3	
North Arcot ..	Tamarapakam anicut channel	..	..	..	..	..	
	Cheyár river	..	..	..	..	..	

Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor—*cont.*

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
South Arcot	Gadilam Athur anicut project	Rs. ..	Rs. ..	Rs. ..	3,000	MONTHS. 3	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.
Trichinopoly	Improvements to Wyacandan channel	20,000	27,000	20,000	700	6	Work much required, but no estimate prepared.
Tanjore	Vettar river—straightening the course of the	95,500	1,000	1,22,500	3,200	6	Rough estimate. It allows for earthwork for straightening the river from Tiruvallur to the sea.
Tinnevely	Tiruchendur drainage channel, clearing	4,000	1,000	5,000	100	6	Approximate estimate.
	Main drain from Athoor lands to the river.	14,200	..	14,200	500	6	Drainage in this portion of the delta is much required.
	Pallakottai channel. Improving	16,000	8,000	24,000	500	6	Approximate estimate.
	Kodagan channel flood banks	12,000	..	12,000	400	6	Do.
	Otapidaram Periyakulam supply-channel cutting.	15,000	15,000	30,000	500	6	Approximate estimate. This is a work that has been suggested by the Revenue Department.

N.B.—The numbers of coolies entered in column 6 have 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 to hundreds.

Transferred to the Revenue Department, with reference to the undermentioned Proceedings:—

G.O., No. 472 W., dated 10th February 1888.
" " 3262, " 6th June 1888, Revenue.

2. It is requested that a sufficient number of copies of the lists, both of "Professional Agency" and "Civil Agency" works, may, when printed, be supplied for the use of the Public Works Department.

(Signed) J. O. HASTED, Col., R.E.,
Secy. to Govt., P.W.D.

To the Revenue Department.

ORDER—dated 10th November 1888, No. 780, Revenue.

Miscellaneous.

Ordered that the lists received from the Public Works Department be forwarded to the Government of India.

(Here enter No. 781, dated 10th November 1888.)

(True Extract.)

Ag. Secretary to Government.

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

Exd. A. D. Xavier.

130 Copies.

P 22 647 Mrs

P.W.D. K. 110000

No 3826475-12-88.

Govt. of (1888) Madras.

REVENUE.

Recorded

127 W.C.S.

Issued.

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Encl.

G.O., 10th November 1888, No. 780.

NOVEMBER.

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Famine Relief Works.

Lists of Professional Agency — received from the Public Works Department, ordered to be forwarded to the Government of India.

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With order
with order
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REVENUE DEPARTMENT.

READ—the following Endorsement of the Public Works Department, dated 10th September 1888, No. 645-D. :—

Read—the following letter from Major W. H. COAKER, R.E., Officiating Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Ootacamund, 22nd June 1888, No. 204 :—

With reference to G.O., dated 10th February 1888, No. 472 W., I have the honor to forward a statement showing quantities of earthwork at present available for execution by famine labor 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. The construction of the Villupuram-Pakal and Tirupati-Dharmavaram lines will probably be undertaken by the South Indian Railway shortly.

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.

4. From Proceedings of Government, dated 29th March 1886, No. 263 R., it appears that the average quantity of earthwork done by each cooly on the Hindupur extension was a little over one cubic yard per day, which may be assumed as a fair task in calculating the number of persons for whom employment could be found for any given length of time.

ENCLOSURE.

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

District.	Name of line.	Miles.	Cubic yards per mile.	Total.	Total in each district.
				CUB. YDS.	CUB. YDS.
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Madura	Do.	44	33,600	1,478,400	4,912,533
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Do.	Guntakal-Hindupur	* 62	32,400	2,008,800	21,756,033
	Total ..	670½	..	21,756,033	21,756,033

* Total length of line 111 miles; the earthwork of 49 miles was completed in 1885.

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CHEPÁK,
5th September 1888.

(Signed) H. R. MEAD, Col., R.E.,
Chief Engineer for Irrigation.

With order
written
20/12/12

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District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
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	Rushikulya project ..	8,26,210	22,65,090	30,91,300	13,800	12	Estimates sanctioned by the Secretary of State and work in progress. The sanctioned rates being insufficient and certain alterations being found necessary in the design for works, revised estimates have been prepared and will be submitted for sanction as soon as the revised forecast statements of revenue and expenditure have been returned by the Collector duly approved and countersigned.
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Cuddapah ..	Suggaliar project ..	2,59,290	2,89,840	5,49,130	4,300	12	To supply Párumánila and Badvel tanks by an anicut across the Suggaliar. Plans and estimates have been prepared, but will require considerable revision. The project is likely to be a paying one.

Statement showing the irrigation and connected works available in each district for the employment of famine labor—cont.

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Coinbatore ..	Calingroyen channel improvements Do. extension ..	1,60,800 2,44,800	1,26,000 1,35,400	2,86,800 3,80,200	3,500 3,800	9 13	The proposal to improve bedfall, provide efficient sluices and reduce the existing number of sluices and extend the channel about 33 miles to bring about 15,000 acres of land under wet cultivation, including 5,000 acres now irrigated by the Pugalur channel. Estimates have been submitted for the sanction of the Government of India (<i>vide</i> G.O., No. 332 I, dated 8th June 1888).
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		Earthworks.	Other works.	Total.				
1	2	3	4	5	6	7	8	
Salem— <i>cont.</i>	Vaniar reservoir	RS. 5,54,000	RS. 5,05,000	RS. 10,59,000	3,700	MONTHS. 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 promises a good supply of water which will be fully utilized; but looking to the large capital outlay required it is not likely to prove remunerative but it may be put in hand if the necessity for famine relief arises. Plans and estimates have been prepared, but have not been forwarded for sanction.
Do.	Goodamally reservoir	1,50,000	2,00,000	3,50,000	3,750	8		The site selected is on the Swathanadi river, a short distance above the village of Goodamally, Atir taluk. At the site proposed for the dam the river drains 150 square miles. Site examined and favorably reported on in 1878; nothing done since.
Do.	Badataloo 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-11½ miles in length from the Kurumbapilly river, which drains 650 square miles of country; also of constructing distributing 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.
Do.	Malapady tank restoration	44,000	23,000	67,000	2,200	4		This tank was ruined a very long time ago. It was inspected early in 1875 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.
South Arcot	Extension of the Buckingham Canal from Thambakam to Kottukuppam and in the French territory between 16½ and 19½ miles.	4,16,022	1,47,200	5,63,222	20,800	4		The line was surveyed and estimated for before 1879. The plans and estimates require to be again checked and put into shape. The canal will, it is reported, be an excellent famine work and may bring a good deal of traffic to Madras.

Statement showing the irrigation and connected works available in each district for the employment of famine labor—*cont.*

District.	Name of work.	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	Coleroon left flood bank from Coleroon bridge to Nundyar anicut, raising and strengthening.	RS. 58,488	RS. 19,396	RS. 78,084	2,000	MONTHS. 6	Estimate amounting to Rs. 89,590 sanctioned in G.O., No. 541 I, of 3rd September 1887. The amount shown in column 5 is exclusive of work proposed to be carried out in 1888-89.
Tanjore	Coleroon embankment Improvement to the—	RS. 5,67,353	5,69,712	11,37,065	18,900	6	The plans and estimates completed by Executive Engineer Mr. Lobb are now under the consideration of the Superintending Engineer, VI Circle. The work is in both Tanjore and South Arcot districts and is well suited for famine work.
Do.	Vadavur improvements	11,000	2,090	13,090	400	6	Estimate amounting to Rs. 40,700 sanctioned in G.O., No. 789 I, dated 18th November 1886. The amount entered in column 5 is the balance of the estimate to be worked out. This work might be extended hereafter.
Do.	Kodamurty right bank from its head to road No. 4.	9,420	..	9,420	300	6	Estimates prepared and sent to the Collector, but will shortly be sanctioned.
Do.	Vedarniem canal improvements	89,834	9,876	99,710	3,000	6	Estimate prepared, but its submission is delayed owing to non-receipt of information regarding land compensation from the Revenue Department.
Tinnevely	Padupathy Aruppankulam. Improving	3,640	915	4,555	100	6	Estimate sanctioned, but no funds allotted for 1888-89.
Do.	Perunkulam surplus channel and road No. 23. Improving.	4,000	6,080	10,080	100	6	Estimate ready; very suitable for famine labor as it consists solely of earthwork.
Do.	Right flood bank below Srivaikuntham anicut forming cross bank and raising the bank near Sudukavvitar and Chokapankarai at 9½ to 10½ miles.	9,911	3,349	13,160	300	6	Estimates ready for submission.
Do.	Padukottai Periyakulam. Improving	5,210	2,868	8,178	200	6	Estimate nearly ready.
Do.	Komatikkottai drainage channel—clearing silt from bed of	2,600	100	2,600	80	6	This work is very suitable for famine labor and consists of digging a new drain in the southern portion of the delta of the Srivaikuntham anicut system, where the lands are frequently swamped during the north-east monsoon for want of drainage. Estimate nearly ready.
Madura	Periyar project	6,78,130	33,91,202	40,69,332	4,200	32 in 4 seasons of 8 months each.	Estimates amounting to Rs. 61,85,000 for direct charges and to Rs. 64,39,913 including indirect charges for this project in the Madura district, which were submitted to the Government of India in April 1883, were sanctioned by the Secretary of State in September 1884 and this sanction was communicated by the Government of India in May 1886. The work is now in progress.

N. B.—The numbers of coolies entered in column 6 have 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 to hundreds.

List No. 2.—Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
Vizagapatam	Surad and Varaha rivers—irrigation works.	RS.	RS.	RS.	..	MONTHS.	Not yet investigated thoroughly. The project does not appear to be a favorable one. The project was partially investigated by the "A" Project Division and further investigation was stopped on the abolition of that division. The canal will have to cross the Yelluru river by a weir with flood gates on either side of the river. Colonel J. O. Hasted, R.E., placed on record that should this project be taken up again, the question whether a tidal canal would not be preferable should be considered; the proposed canal might be difficult to supply. Inclusive of the great reservoir, which, if carried on, would have to be constructed with greater care and skill than could be expected from famine labor. 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 of square miles, near the ruined village of Anumalanka in the Yernagudem taluk. It is six miles north of Nallacheri, a large village on the trunk road between Ellore and Rajahmundry. The site is favorable in wet weather. It will be supplied from the Yerra calva, a perennial 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 Godavari delta, which enters the Western section of the Godavari delta under the Nundamur aqueduct at the head of the Ellore 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 Dorward, R.E., in 1873 require revision. No estimates have been prepared.
Godavari	Canal from Samalkot towards Tuni (37 miles long).	..	..	4,00,000	10,000	8	
	Anumalanka project channels	..	..	9,00,000	7,000	8	
	Widening all Godavari river embankments to fit them for roads.	..	..	..	13,000	8	In 1878 an estimate was sanctioned for this canal and in 1882 an alternative line was investigated, but the execution of work was condemned on either line except as a relief work in case of famine in the Bhadrachalam and Rekapalli taluks.
	Bhadrachalam boat canal	2,89,150	1,66,150	4,55,300	7,200	8	

Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor—cont.

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
Anantapur	Bookacherla project	RS. 12,98,560	RS. 1,96,440	RS. 15,95,000	12,000	MONTHS. 24	This project is for feeding the Bookacherla, Singanamalla, and Anantapur tanks from the Pennar 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. To store water for irrigating 600 acres of land. Partially investigated prior to 1877. Nothing done since. These projects were investigated by the late Madras Irrigation and Canal Company's officers prior to 1870, but nothing has been done since. Now that the Tirupathi-Nellore Railway line has been constructed, a canal communication in this part of the country does not seem very desirable. The return from the work will be insignificant. The proposal is to extend the channel to irrigate more lands, and also improve its alignment.
Kurnool	Potlakonta project	12,000	4,000	16,000	600	4	
	Extension of Kurnool canal as per company's estimates— 11th section (190 to 207 miles) .. 12th section (208 to 234 do.) ..	2,03,873 3,09,420	6,32,163 10,64,328	8,36,036 13,63,748	6,800 6,900	6 9	
Coimbatore	Calinjivadi channel extension	33,000	67,000	1,00,000	3,300	2	This is under investigation. Restoring the Serukalay tank by putting in order all the upper tanks belonging to the group. In 1869-70 an Assistant Engineer was employed in investigating 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 efficient might be available to see whether any alternative arrangements were feasible. In G.O., No. 307 W., dated 27th January 1879, the survey was ordered to be discontinued and the observations already taken to be recorded for future use, as the work was not likely to be remunerative. Besides the existing ancient on the Cheyér river, the surveys of two more projects connected with the same river were reported in 1869 to have advanced to a stage which would enable a skilful officer to use them as a basis for a general design for the works (vide paragraph 24 of the Note printed with G.O., No. 247, dated 27th January 1869). No investigation of the projects has been made.
Salem	Serukalay tank restoration	33,000	17,000	50,000	1,650	4	
Chingleput	Narayanaivaram river irrigation extension project.	2,20,000	80,000	3,00,000	15,000	3	
	Tamarapakam ancient channel	..	..	..	..	..	
North Arcot	Cheyér river	..	..	..	..	..	

Statement showing the irrigation and connected works which may be made available in each district for the employment of famine labor—*cont.*

District.	Name of work.	AMOUNT OF ESTIMATES.			Number of coolies that can be employed.	Probable time required to complete.	Remarks.
		Earthworks.	Other works.	Total.			
1	2	3	4	5	6	7	8
South Arcot	Gadilam Athur ancient project	..	..	rs. ..	3,000	MONTHS. 3	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. Work much required, but no estimate prepared. Rough estimate. It allows for earthwork for straightening the river from Tiruválur to the sea. Approximate estimate. Drainage in this portion of the delta is much required. Approximate estimate. Do. Approximate estimate. This is a work that has been suggested by the Revenue Department.
Trichinopoly	Improvements to Wyecondan channel	20,000	..	20,000	700	6	
Tanjore	Vettar river—straightening the course of the.	95,600	27,000	1,22,600	3,200	6	
..	Tiruchendúr drainage channel, clearing	4,000	1,000	5,000	100	6	
..	Main drain from Athoor lands to the river.	14,200	..	14,200	500	6	
..	Pallakottai channel, Improving	16,000	8,000	24,000	500	6	Do.
..	Kodagan channel, flood banks	12,000	..	12,000	400	6	
..	Otapidaram Periyakulam supply-channel cutting.	15,000	15,000	30,000	500	6	

N.B.—The numbers of coolies entered in column 6 have been arrived at by dividing the amounts of estimates for earth-work 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 to hundreds.

Transferred to the Revenue Department, with reference to the undermentioned Proceedings:—

G.O., No. 472 W., dated 10th February 1888.

„ „ 3262, „ 6th June 1888, Revenue.

2. It is requested that a sufficient number of copies of the lists, both of “Professional Agency” and “Civil Agency” works, may, when printed, be supplied for the use of the Public Works Department.

(Signed) J. O. HASTED, Col., R.E.,
Secy. to Govt., P.W.D.

To the Revenue Department.

ORDER—dated 10th November 1888, No. 780, Revenue.

Miscellaneous.

Ordered that the lists received from the Public Works Department be forwarded to the Government of India.

(Here enter No. 781, dated 10th November 1888.)

(True Extract.)

(Signed) C. A. GALTON,
Ag. Secretary to Government.

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

Exd. A. D. Xavier.

130 Copies.

Reddish white

Secretary of Govt:

The S. W. Dept. ✓
 " Local & Imp^l Dept.
 " Compro of R. & W. Dept.

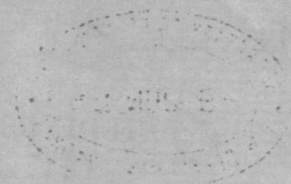
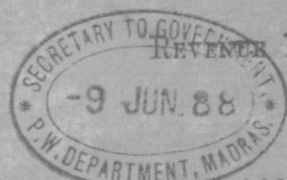
L.R.

Communicated to
the Chief Engineer for
Immigration and the Consulting
Engineer for Railways
for early attention with
reference to G.O. 472 W of 10th
February 1888.
10 February 1888.

9/6/88

birth order

808
9/6



PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following letter from
the Government of India, Revenue
and Agricultural Department,
dated, 14th May 1888, N^o $\frac{41}{A-7}$ J.

Referring to your letter N^o
200 of the 8th March 1888, regarding
the programme of works suitable
for famine relief, I am direct-
ed to request that the Government
of India may be favoured,
as early as possible, with the
information therein promised.

Order thereon, 6th June 1888, N^o 3262.

Communicated to the Public
Works and the Local and Municipal
Departments and the Board of
Revenue in continuation of G.O.
dated 8th March 1888, N^o 199, with
the

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated February, 10th.

Recd.

Encl.

G.O., 10th Feb. 1888, No. 472 W.

FEBRUARY.

Famine Relief Works

Orders on Proceedings of the Revenue
Department communicating letter from the
Government of India requesting the annual
submission of a statement showing the num-
ber of persons for whom employment can be
found on — and a description of the nature
of the works suitable for famine relief.

10TH FEBRUARY 1888, No. 472 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

Proceedings of Government, Revenue Department, dated 29th November 1887,
Mis. No. 1109.

Read—the following letter from Sir E. C. BUCK, Secretary to the Government of
India (Revenue and Agricultural Department), to the Secretary to the
Government of Madras, dated Simla, 11th October 1887, Circular
No. 65-F—11-2.

I am directed to inquire whether the programme of works suitable for famine relief, prescribed by sections of your code corresponding with sections 28 and 65 of the Provisional Famine Code, has now been completed for the Madras Presidency, and to request that the Government of India may be furnished with a statement showing the number of persons for whom in each district it is estimated that employment on relief works can be found, and that hereafter a corrected statement may be submitted on or before the 1st of April of each succeeding year, commencing with April 1889.

2. I am also to ask for a very brief description of the nature of any works or operations contemplated by section 30 of the Provincial Famine Code for famine relief, which are specially intended for the employment of the agricultural population in the vicinity of their villages. I am to make it clear that a list of such works is not required but only an explanation of their general character, e.g., construction of tanks, banking up of ravines, irrigation or digging of fields, &c.

Order—dated 29th November 1887, Mis. No. 1109, Revenue.

Communicated to the Public Works and the Local and Municipal Departments and the Commissioner of Revenue Settlement, Land Records and Agriculture, with the request that the information required by the Government of India regarding the programme of works maintained in accordance with sections 27—29 and 106 of the Madras Famine Code, may be furnished to this department. The annual statement required by the Government of India should also be forwarded before 1st March in each year.

2. It appears from G.O., dated 26th July 1886, No. 1877 W., that a programme of works for certain districts has been prepared in the Public Works Department, but the Government are not aware of any action taken by district officers with regard to civil agency works since the promulgation of the Famine Code. The Board should submit a complete report on this subject.

3. The Board of Revenue will also report on paragraph 2 of the letter read above. The reference to "Provincial Code" is apparently a mistake for "Provisional Code." The corresponding portion of the Madras Code seems to be section 21 (3).

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

Proceedings of Government, Revenue Department, dated 24th January 1888, No. 552.

Read—the following letter from the Government of India, Revenue and Agricultural Department (Famine), dated 16th January 1888, No. 2 F.

Circular No. ^{65 I.}₁₁₋₂ of the 11th October 1887. I am directed to invite attention to the communication marginally noted and to request the favor of an early reply thereto.

Order—dated 24th January 1888, No. 552, Revenue.

Communicated to the Public Works and the Local and Municipal Departments and the Director of Land Records and Agriculture with the request that the information asked for in G.O., dated 29th November 1887, No. 1109, may be furnished at an early date.

(True Extract.)

(Signed) H. A. STUART,
Under Secretary to Government.

ORDER—dated 10th February 1888, No. 472 W., Public Works.

Communicated to the Chief Engineer for Irrigation and the Consulting Engineer for Railways who will submit, as soon as possible, the programme of professional agency works required to be maintained under section 27 of the Famine Code. Against each work should be shown the number of famine laborers who can be employed on it.

2. The statements recorded with G.O., No. 1877 W., dated 26th July 1886, contain a number of irrigation projects that may be made available for famine relief purposes, but there is nothing to show what number of laborers are likely to find employment on them. The lists should now be reconsidered in this light.

3. The railway works in contemplation and those recently surveyed should also be taken up in the same manner, and such of them as are considered suitable for famine relief, embodied in one list with the number of laborers for whom they are likely to provide employment on the occurrence of famine, noted against them. It will thereafter be necessary, in accordance with the provisions of the circular recorded with G.O., No. 982, dated 13th November 1886, Revenue, to obtain the approval of the Government of India to the inclusion of the projects in the "sanctioned programme of relief works."

4. As regards "Civil Works," there are generally a large number of uncommenced works available, which may, in certain cases, be utilised for the employment of famine labor, but they are not generally of such a character as would warrant their being included in the regular programme of famine relief works. No separate lists of these need therefore be made.

5. Attention is called to the instructions of the Government of India in paragraph 1 of their letter, No. 65-F.—11-2, dated 11th October 1887, requiring a corrected statement to be submitted on or before the 1st April of each year, commencing with April 1889. The return should be included in the list of periodical returns embodied in the Public Works Code.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation.
" Consulting Engineer for Railways.
" Examiner, Public Works Accounts.
" Revenue Department.
" Local and Municipal Department.

Exd. J. Moses.
Spare Copies

Govt. of (1888) Madras.

REVENUE.

No. 1086 of 11 April 1888

Received

(100) J. H.

Issued

Encl.

Recd.

G.O., 8th March 1888, No. 199.

No. 1086 of 11 April 1888

MARCH.

Famine Relief Works.

Approving the instructions issued by the Board in regard to the preparation of lists of — and ordering that the Government of India be addressed.

Approved
Ch. H. Rys

8TH MARCH 1888, No. 199, REVENUE.

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 24th January 1888, No. 27 :—

J. GROSE, Esq., M.A., C.S.

Read—the following G.O., dated 29th November 1887, No. 1109, Revenue :—

Read—the following letter from Sir E. C. BUCK, Secretary to the Government of India (Revenue and Agricultural Department), to the Secretary to the Government of Madras, dated Simla, 11th October 1887, Circular No. 65-F.—11-2 :—

I am directed to inquire whether the programme of works suitable for famine relief, prescribed by sections of your code corresponding with sections 28 and 65 of the Provisional Famine Code, has now been completed for the Madras Presidency, and to request that the Government of India may be furnished with a statement showing the number of persons for whom in each district it is estimated that employment on relief works can be found, and that hereafter a corrected statement may be submitted on or before the 1st of April of each succeeding year, commencing with April 1889.

2. I am also to ask for a very brief description of the nature of any works or operations contemplated by section 30 of the Provincial Famine Code for famine relief, which are specially intended for the employment of the agricultural population in the vicinity of their villages. I am to make it clear that a list of such works is not required, but only an explanation of their general character, *e.g.*, construction of tanks, banking up of ravines, irrigation or digging of fields, &c.

Order—dated 29th November 1887, No. 1109, Revenue.

Miscellaneous.

Communicated to the Public Works and the Local and Municipal Departments and the Commissioner of Revenue Settlement, Land Records and Agriculture, with the request that the information required by the Government of India regarding the programme of works maintained in accordance with sections 27—29 and 106 of the Madras Famine Code, may be furnished to this department. The annual statement required by the Government of India should also be forwarded before 1st March in each year.

2. It appears from G.O., dated 26th July 1886, No. 1877 W., that a programme of works for certain districts has been prepared in the Public Works Department, but the Government are not aware of any action taken by district officers with regard to civil agency works since the promulgation of the Famine Code. The Board should submit a complete report on this subject.

3. The Board of Revenue will also report on paragraph 2 of the letter read above. The reference to "Provincial Code" is apparently a mistake for "Provisional Code." The corresponding portion of the Madras Code seems to be section 21 (3).

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

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

Resolution—dated 24th January 1888, No. 27.

The Government of India inquire whether programmes of works suitable as relief works in times of famine have yet been prepared, and ask for an annual statement of the number of people for whom employment on such works can be found. They also ask for a brief description of the nature of the works specially intended for the employment of the agricultural population in the vicinity of their villages.

2. With regard to the latter inquiry, the Board do not consider that (for present purposes) anything can be added to the description given in section 21 (3) of the Madras Famine Code. For administrative purposes, however, it is desirable that Collectors should be requested to consider the cases of a few of the principal villages in each taluk and decide on the works which should be set on foot if required there. Collectors will accordingly be requested to do so and to report the result to the Board.

3. The programmes to which the Government of India refer are programmes of works calculated to give employment for at least four years (in ordinary seasons) and are divided into—

(a) Professional Agency works. | (b) Civil Agency works.

About "Professional Agency works," which have to be selected by the Chief Engineer, the Board are not in a position to say much. A list of works which were classed as "Protective works," but many of which would also be suitable as relief works, was issued in 1882 (G.O., dated 13th June 1882, No. 465 I.) and brought up to date in the papers disposed of in G.O., dated 26th July 1886, No. 1877 W.; but no estimate is forthcoming as to the numbers which could find employment on them.

4. As regards "Civil Agency works," the Board have to state that no lists have been prepared. Collectors have never been called upon to furnish such lists, and if they were, it is doubtful if they could do so in the detailed form required by the Famine Code. They could indeed give a list of projects which would be advantageous, like that contained in the papers printed in Board's Proceedings, dated 22nd May 1886, No. 1164, but they could not, in the present weak state of the Engineering Department, get estimates prepared for them (*vide* paragraph 9 of the letter from the Famine Code Committee printed in G.O., dated 5th October 1882, No. 1080 A). Isolated and incomplete lists were received from Bellary and Anantapur when famine was apprehended there, but they were not in the detail required by the Government of India. The Collectors of all districts, except Malabar and South Canara, will now be requested to submit annually a list of Civil Agency works, such as would employ 5 per cent. of the population of the district for 12 months, giving a rough estimate of the cost of each. Then, when famine becomes *probable* (which is a long time before it becomes *actual*), extra Engineers will have to be deputed to prepare detailed estimates. The first list should be submitted within three months from the date of receipt of these Proceedings.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
,, all Collectors.

Read—the following G.O., dated 10th February 1888, No. 472 W., Public Works :—

Read—the following papers :—

Proceedings of Government, Revenue Department, dated 29th November 1887, Mis. No. 1109.

Read—the following letter from Sir E. C. BUCK, Secretary to the Government of India (Revenue and Agricultural Department), to the Secretary to the Government of Madras, dated Simla, 11th October 1887, Circular No. 65-F.—11-2 :—

I am directed to inquire whether the programme of works suitable for famine relief, prescribed by sections of your code corresponding with sections 28 and 65 of

the Provisional Famine Code, has now been completed for the Madras Presidency, and to request that the Government of India may be furnished with a statement showing the number of persons for whom in each district it is estimated that employment on relief works can be found, and that hereafter a corrected statement may be submitted on or before the 1st of April of each succeeding year, commencing with April 1889.

2. I am also to ask for a very brief description of the nature of any works or operations contemplated by section 30 of the Provincial Famine Code for famine relief, which are specially intended for the employment of the agricultural population in the vicinity of their villages. I am to make it clear that a list of such works is not required but only an explanation of their general character, *e.g.*, construction of tanks, banking up of ravines, irrigation or digging of fields, &c.

Order—dated 29th November 1887, Mis. No. 1109, Revenue.

Communicated to the Public Works and the Local and Municipal Departments and the Commissioner of Revenue Settlement, Land Records and Agriculture, with the request that the information required by the Government of India regarding the programme of works maintained in accordance with sections 27—29 and 106 of the Madras Famine Code, may be furnished to this department. The annual statement required by the Government of India should also be forwarded before 1st March in each year.

2. It appears from G.O., dated 26th July 1886, No. 1877 W., that a programme of works for certain districts has been prepared in the Public Works Department, but the Government are not aware of any action taken by district officers with regard to civil agency works since the promulgation of the Famine Code. The Board should submit a complete report on this subject.

3. The Board of Revenue will also report on paragraph 2 of the letter read above. The reference to "Provincial Code" is apparently a mistake for "Provisional Code." The corresponding portion of the Madras Code seems to be section 21 (3).

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

Proceedings of Government, Revenue Department, dated 24th January 1888, No. 552.

Read—the following letter from the Government of India, Revenue and Agricultural Department (Famine), dated 16th January 1888, No. 2-F :—

I am directed to invite attention to the communication marginally noted and to request the favor of an early reply thereto.

Circular No. $\frac{55 I.}{11-2}$, of the 11th October 1887.

Order—dated 24th January 1888, No. 552, Revenue.

Communicated to the Public Works and the Local and Municipal Departments and the Director of Land Records and Agriculture with the request that the information asked for in G.O., dated 29th November 1887, No. 1109, may be furnished at an early date.

(True Extract.)

(Signed) H. A. STUART,
Under Secretary to Government.

Order—dated 10th February 1888, No. 472 W., Public Works.

Communicated to the Chief Engineer for Irrigation and the Consulting Engineer for Railways who will submit, as soon as possible, the programme of professional agency works required to be maintained under section 27 of the Famine Code. Against each work should be shown the number of famine laborers who can be employed on it.

2. The statements recorded with G.O., No. 1877 W., dated 26th July 1886, contain a number of irrigation projects that may be made available for famine relief purposes, but there is nothing to show what number of laborers are likely to find employment on them. The lists should now be reconsidered in this light.

3. The railway works in contemplation and those recently surveyed should also be taken up in the same manner, and such of them as are considered suitable for famine relief, embodied in one list with the number of laborers for whom they are likely to provide employment on the occurrence of famine, noted against them. It will thereafter be necessary, in accordance with the provisions of the circular recorded with G.O., No. 982, dated 13th November 1886, Revenue, to obtain the approval of the Government of India to the inclusion of the projects in the "sanctioned programme of relief works."

4. As regards "Civil Works," there are generally a large number of uncommenced works available, which may, in certain cases, be utilised for the employment of famine labor, but they are not generally of such a character as would warrant their being included in the regular programme of famine relief works. No separate lists of these need therefore be made.

5. Attention is called to the instructions of the Government of India in paragraph 1 of their letter, No. 65-F.—11-2, dated 11th October 1887, requiring a corrected statement to be submitted on or before the 1st April of each year, commencing with April 1889. The return should be included in the list of periodical returns embodied in the Public Works Code.

(True Extract.)

(Signed) W. L. C. BADDELEY, Captain, R.E.,
Under Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation.
„ the Consulting Engineer for Railways.
„ the Examiner, Public Works Accounts.
„ the Revenue Department.
„ the Local and Municipal Department.

ORDER—dated 8th March 1888, No. 199, Revenue.

Miscellaneous.

The Government approve of the instructions issued by the Board in the first of the papers read above.

2. Ordered that the Government of India be addressed.

(True Extract.)

(Signed) J. F. PRICE,
Secretary to Government.

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

Exd. P. L. Pereira.

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