M.R.O. 1—77,006—

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 683-84 Press Mis.

45-53

Dated 3 8 1820.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 3rd March 1870.

Read the following:—

No. 45. From the Acting Superintending Engineer, 1st Division.
(Here enter No. , dated 15th January 1870.)

No. 46. From the Superintending Engineer, 2nd Division.
(Here enter No. , dated 27th January 1870.)

No. 47. From the Superintending Engineer, 3rd Division.
(Here enter No. , dated 26th January 1870.)

No. 48. From the Acting Superintending Engineer, 4th Division.
(Here enter No. 5,209, dated 22nd January 1870.)

No. 49. From the Superintending Engineer, 5th Division.
(Here enter No. 175, dated 22nd January 1870.)

No. 50. From the Superintending Engineer, 6th Division.
(Here enter No. , dated 3rd February 1870.)

No. 51. From the Officiating Superintending Engineer, 8th Division.
(Here enter No. , dated 19th January 1870.)

Statement showing the Progress of Agricultural Works under execution from the Extraordinary Grant, for the quarter ended 31st December 1869.

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of sanction.	Expenditure up to end of preceding official year.	Current year's grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	
143 and G. O., No 1,761, date 29th May 1869.	Godavery..	Improvements to Akeed Canal.	1,03,230	G. O., No. 1,778, dated 6th June 1868; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	91,231	12,008 G. O., No. 3,338, dated 16th Oct. 1869.	757	6,608	97,839	Completed, except coping of Yalurpad Lock.
144	Do ...	Re-building side wall of Gunnaram aqueduct.	21,420	G. O., No. 3,575, dated 4th Dec. 1868; G. O., No. 516, dated 14th Feb. 1868; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	9,647	5,500	1,008	3,895	13,542	All arches are finished, and raising parapet of south side wall in progress.
145 and G. O., No. 1,761, date 29th May 1869.	Do. ...	Widening and improving Samulcottah Canal.	1,31,200	G. O., No. 2,851, dated 28th Nov. 1862; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	84,808	46,392	85	15,825	1,00,633	Seventeen miles of earth-work done, and 40 culverts built.
146	Do. ...	Extension of irrigation from Ellore Canal.	.....	Estimate not sanctioned. *Vide* Joint Secretary's letter, No. 2,449, dated 26th July 1869.	28,894	40,000	625	21,302	50,196	Bridges at 11¼ mile mid level channel are under progress.
147	Do. ...	Aqueduct across Cowsica drain.	16,500	G. O., No. 499, dated 20th Feb. 1865; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	1,710	4,000	.....	.....	1,710	Estimate under revision.
148	Do. ...	Extension of irrigation from Western Delta.	.....	Estimate not yet sanctioned. *Vide* Joint Secretary's letter, No. 2,449, dated 26th July 1869.	17,252	58,600 G. O., No. 3,338, dated 16th Oct. 1869.	2,588	34,534	51,786	Drainage works at Paremella completed. Calingulahs at Paravelly and Itempudi erected. Tunnel at Royacuduru completed. Drain west of Nursapur Canal a portion only. Materials for Itempudi Lock, Escape in Venkiah Canal, and for bridge over Bodapadu drain being collected.
149	Do. ...	Works for the cross drainage, Ellore High Level Canal.	1,05,490	G. O., No. 4,005, dated 19th Dec. 1866; Govt. of India's No. 53-A-I., dated 11th March 1869.	93,403	17,000	43	2,844	96,247	Completed, except extra under-tunnel near Bhemadole.
150	Kistna ...	Enlargement, extension, and improvement of the channels in the Masulipatam section of the Kistna Delta.	1,77,000	G. O., No. 747, dated 17th March 1865; G. O., No. 2,211, dated 23rd July 1867; G. O., No. 3,089, dated 5th Oct. 1867; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	77,312	22,900 G. O., No. 3,703, dated 19th Nov. 1869.	6,212	15,725	93,037	Enlargement of the main canal in the first 12½ miles and of the Poolnaroo up to Murrivada half done, and between the latter place and Cowtaram to a width of 65 feet for 7¼ miles, and of 50 feet for seven miles. Calingulah at Weyoor and bridge on the Hyderabad road across channel near Pamurru completed. Regulating bridge at Pamurur nearly completed.
151	Do. ...	Irrigation channel on the west side of Masulipatam Canal from 13th mile to Aukumurru.	49,860	G. O., No. 3,342, dated 19th Oct. 1866; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	31,891	18,000	1,004	4,719	36,610	Channel between Kunkipad and Verunkey 12 miles nearly finished, and between Verunkey and Aukumurru 10 miles finished and 5 miles in progress. Foundations for the head sluice completed. Materials being collected.
152	Do. ...	Widening the head of Masulipatam Canal for 1,000 yards from the anicut to the head of the Ellore Branch.	20,080	G. O., No. 3,395, dated 24th Oct. 1866; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	11,668	2,300 G. O., No. 3,703, dated 19th Nov. 1869.	.....	466	12,134	Work in progress in the 1,000 yards at the head. Estimate is found insufficient.
153	Do. ...	Side channel from Doogeralla to Nizampatam.	51,580	G. O., No. 3,861, dated 6th Dec. 1866; G. O., No. 3,099, dated 7th Oct. 1867; G. O., No. 2,359, dated 23rd July 1868; Govt. of India's No 132-A-I., dated 1st Sept. 1868.	40,694	11,000 G. O., No. 3,703, dated 19th Nov. 1869.	1,059	9,920	50,614	The widening of side channels completed. Head sluice and other masonry works completed except minor irrigation sluices. New irrigation channel from tidal lock completed.
154	Do. ...	Enlargement and improvement of Ryves's channel and its branches, and construction of the masonry works.	4,08,090	G. O., No. 3,684, dated 27th Nov. 1867; G. O., No. 3,099, dated 7th Oct. 1867, and No. 348, dated 31st Jan. 1868; Govt. of India's No. 132-A-I., dated 1st Sept. 1868	44,351	25,000 G. O., No. 3,704, dated 19th Nov. 1869.	8,383	22,715	67,066	Head of Ryves's Canal completed. About two miles foundations of the head sluice laid out. Enlargement of branch channel in progress. Two accommodation bridges completed.
155	Do. ...	Extension of the Commamoor channel and construction of the necessary masonry works.	1,95,770	G. O., No. 3,699, dated 15th Dec. 1863; G. O., No. 1,310, dated 1st May 1867; G. O., No. 1,881, dated 24th June 1867; Govt. of India's No. 132-A-I, dated 1st Sept. 1868.	1,57,066	30,000 G. O., No. 3,703, dated 19th Nov. 1869, and G. O., No. 3,754, dated 25th Nov. 1869.	964	14,365	1,71,431	Extension of Commamoor channel completed. Opened 50 miles for irrigation. Widening at the head of new cut for about a mile completed. Four calingulahs and escapes, five outlets and inlets, one bridge, two head sluices, and two under-tunnels completed. Six head sluices 20 miles of irrigation channels are in progress. Rapid at the head of canal partly finished, and will be completed before the end of the official year.
156	Do. ...	Sloping down the banks of the main canal from the southern flank of the anicut, and enlarging the head of main canal from Seetanagaram to Doogeralla.	2,76,400	G. O., No. 2,358, dated 18th Dec. 1856; G. O., No. 2,382, dated 24th Dec. 1861; G. O., No. 1,376, dated 17th June 1862; G. O., No. 636, dated 7th March 1865; G. O., No. 2,400, dated 30th July 1866; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	1,99,423	13,000 G. O., No. 3,704, dated 19th Nov. 1869.	709	5,105	2,04,528	Dooguralla escape, Jagerlamoody escape, (since improved under a fresh estimate), Kolemerla aqueduct, and embanking Commamoor channel, completed. Widening in progress in 2nd and 3rd miles. Four miles of canal deepened to one yard on both sides, with the exception of few places.
157	Do. ...	Channel from Ravendrapaud to tide water, or western bank channel.	1,46,480	G. O., No. 1,405, dated 12th Aug. 1856; G. O., No. 3,232, dated 6th Nov. 1863; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	1,30,309 * 1,374 1,31,935	17,000	98	17,679	1,52,614	Channel is used throughout its whole length of 55 miles for irrigation, and open for traffic as far as Kolloor. Twenty-one miles. Channel widened between Ravendrapaud and Vellatoor ten miles. Six calingulahs completed. Iskapully channel excavated 13 mile.

* Recovery made in October.

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant, etc.—(Continued.)

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of sanction.	Expenditure up to end of preceding official year.	Current year's Grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure	Succinct Account showing the state to which the works have been advanced up to date.
			Rs.		Rs.		Rs.	Rs.	Rs.	
158	Kistna ...	Excavating Ramarazupollem Channel towards Gokaram.	14,050	G. O., No. 515, dated 14th Feb. 1868 ; G. O., No. 1,412, dated 30th April 1869 ; Govt. of India's No. 5-r., dated 5th Jun. 1869.	10,384	3,666 G. O., No. 3,754, dated 25th Nov. 1869.	771	2,947	13,331	Channel nearly finished. One wooden bridge completed, and another nearly completed.
159	Do. ...	Construction of an accommodation bridge across the Commamoor Channel at Kollakalur.	13,650	G. O., No. 1,676, dated 21st May 1869 ; Govt. of India's No. 124-A-I, dated 21st June 1869.	.....	* 8,600 G. O., No. 3,754, dated 25th Nov. 1869.	716	6,321	6,321	Materials being collected, work in progress.
160	Do. ...	Improvements to the lower portion of Pullair.	1,01,050	G. O., No. 3,581, dated 27th Nov. 1865 ; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	1,02,445	1,300	173	350	1,02,795	Cowtaram Lock with calingulah and bridge, Pamurru Lock, Buttercodu head sluice, Pamurru and Chittrum channels, Chegurococottah channel from Gurocza to Komanapudy, Buntoomilly channel 22 miles, Polrazcodu channel 26 miles, Buntoomilly calingulah and Chennoor calingulah, completed. Tadecherla calingulah in progress. Regulating bridge at the head of Polrazcodu finished
164	Do. ...	Drainage channel to dispose of four drainages which at present run into the Vellatoor channel and restrict its means of irrigation.	10,460	G. O., No. 2,590, dated 17th Aug. 1866 ; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	8,516	1,700	120	132	8,648	The drainages are completed, and are in use this year.
										SURVAPULLY PROJECT.
165	Nellore ...	Improvements to the Survapully channel.	4,12,100 2,760 5,200	G. O., No. 1,844, dated 20th June 1867 ; G. O., No. 12, dated 5th Jan. 1869 ; G. O., No. 972, dated 23rd March 1869 ; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	1,28,824	60,000 G. O., No. 3,754, dated 25th Nov. 1869	10,908	42,624	1,71,448	Auxiliary head-sluice, enlarging old channel, demolishing bridge over old supplying channel, connecting existing and proposed head sluices by a parapet wall, regulating sluice at the head of Jaffer Saib's channel, Bridge near Stonehouse; ett, substituting three iron aqueduct for syphons, Escape in the Survapully reservoir, lengthening five irrigation sluices of main reservoir head sluice for Idagally branch, regulating sluice at Idagally, Ipur, and Pudupurty, Survapully and Vullur channels, closing the centre set of under-sluices of Pennair Anicut, Fail of Vulloor channel, 5 miles of Vulloor channel, 2¼ miles of Survapully High Level Channel have been completed. Survapully tank-bund has been raised one yard ; Idagally, Ipur, and Pudipurry channels have nearly been completed. Head sluice of Survapully and Vulloor channels, surplus sluice adjacent to the Survapully branch, part of Vulloor and Survapully High Level Channels are in progress.
	Kistna ...	Nizampatam Canal ...	2,94,815	G. O., No 220, dated 20th Feb. 1854 ; No 2,009, dated 30th Oct. 1856, No. 2,400, dated 30th July 1866; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	2,94,356	1,000	40	724	2,95,080	Five locks and calingulahs completed. The canal is open for traffic throughout the whole length.
	Do. ...	Improvements to the eastern embankment of the Kistna from Yanamala Coodooroo to Mopedavy.	56,910	G. O., No. 2,408, dated 23rd Dec. 1856.	34,367	1,250 G. O., No. 1,609, dated 10th May 1869, Govt. of India's No. 53-A-I., dated 11th March 1869.	481	966	35,333	Earth-work in progress.
	Do. ...	Constructing first-class Lock at Doogeralla to connect Nizampatam canal and the Commamoor channel.	33,570	G. O., No. 3,381, dated 19th Nov. 1863 ; No. 1,870, dated 22nd June 1867 ; No. 3,935, dated 18th Dec. 1868; Govt. of India's No. 5-I., dated 5th Jan. 1869.	33,160	.....	.....	1,202	34,362	Completed. The excess expenditure is within five per cent
		Lock and calingulah at Jaggerlamoody.	18,040	G. O., No. 2,041, dated 26th June 1868 ; G. O., No. 132-A-I., dated 1st Sept. 1868.	18,643	.....	.....	2,331	20,980	Completed.
171	Madras ...	Madras Water Works ...	6,11,759	G. O., No. 3,293, dated 16th Oct. 1866 : Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	6,25,939	2,50,000 G. O., No. 3,703, dated 19th Nov. 1869; Govt. of India's No. 249-A-I., dated 20th Dec. 1869.	42,660	1,89,770	8,15,709	Head sluice completed, except front wall over arches and parapet walls. Anicut body raised 4 feet 6 inches ; wings completed ; apron completed. Channel to Cholavaram completed. Bridges completed ; Inlet completed. Cholavaram Bund : earth-work ·941 completed ; revetment ·547 built. Red Hill Bund : earth-work ·948 executed ; revetment ·669 built; Irrigation sluices built ; Masonry dam raised to seven feet above old calingulah. Channel between Lakes completed ; Masonry works on channel completed ; Head sluice to sluice channel two-thirds built ; Irrigation sluice Cholavaram Bund four-fifths built.
172	Do. ...	Chembrumbakum Tank Project.	3,55,430	G. O., No. 3,808, dated 7th Dec. 1867 : Govt. of India's No. 333-I., dated 18th Sept. 1869.	1,04,743	1,20,000	31,157	69,905	1,74,648	The earth-work of the outer slope of the bund has been carried up along the whole length of the old bund to its former level. Three-fourths of the addition to the length of the bund on the north side, and two-thirds of the new portion to be added to the south has been executed. One-sixteenth of the revetment, puddle, and gravel executed. The foundations, floor, and side walls of the culverts of No. 2 sluice re-built. The foundations and floor of No. 6 sluice completed, and the walls are being built. Two and-a-half miles of road completed. Officer's bungalow, brick-sheds, and kilns, office-sheds, etc., completed.

* Rupees 6,825 sanctioned from the Extraordinary Grant.

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant, etc.—(Concluded.)

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of sanction.	Expenditure up to end of preceding official year.	Current year's Grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure.	Succinct Account showing the state to which the works have been advanced up to date.
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	
190	Tanjore ..	Regulating works for the improvement of the river Cauvery. Deduct amount to be charged to Local Funds, as per G O., No. 118, dated 15th January 1869.	1,37,790 34,300 1,03,490	G. O., No. 775, dated 14th March 1867, and No. 270, dated 24th Jan. 1868; and No. 118, dated 15th Jan. 1869; Govt. of India's No. 132-A-I., dated 1st Sept. 1868.	84,994	27,700 Deduct as per G. O., No. 1,767A., dated 29th May 1869.. 7,899 Do. as per G. O., No. 3,754, dated 25th Nov. 1869. 10,000 17,899 9,801	4	2,171	87,165	Cauvery dam and bridge—Superstructure completed, except flooring of seven arches which is to be raised one foot, and the dam above flooring. The plastering of arches, east parapet face walls, wings, and masonry head, completed. Rough stone four yards wide placed along side of the rear apron from end to end. Codamurty Dam—Foundation and solid masonry completed up to 210·5. Piers raised to the average height of four feet, abutments ten feet, north wing sixteen feet, and south wing sixteen feet with parapets. Rough stone four yards wide opposite four arches on north side, two yards wide opposite sluice vents on north side, and one yard wide along the remaining portion of the rear apron placed. Cauvery and Araselaur Dam—Finished, except plastering and some earthwork. Cauvery and Veerasholem dam—Finished, but accounts not yet closed.
	Do. ...	Completing a front and rear retaining wall and apron along the south branch of the lower Coleroon Anicut.	70,400	G. O., Nos. 3,285, and 3,774, dated 15th Oct. and 28th Nov 1866, and No. 1,488, dated 17th May 1867.	46,019	G. O. No. 1,767, dated 29th May 1869; G. O. No. 2,748, dated 21st Aug. 1869; Govt. of India's No. 159A-I., dated 27th July 1869 ... 11,608 Deduct as per G. O. No. 3,783, dated 30th Nov. 1869 ... 11,608 2,745 G. O., No. 1,767-A., dated 29th May 1867.	911	1,693	47,712	Conveyance of rough stone from Trichinopoly in progress. All other works completed, with the exception of the front retaining wall which is not to be carried out.
	Trichinopoly.	Weyacondan Channel Extension Project.	25,860	G. O., No. 459, dated 15th Feb. 1864, and No. 1,330, dated 22nd April 1869; Govt. of India's No. 53-A-I., dated 11th March 1869.	23,115		561	1,585	24,700	Earth-work completed. A little rock yet to be removed. Work postponed owing to water in the channel.
	Do. ...	Constructing surplus sluices for the Weyacondam channel.	16,500	G. O., No 3,360, dated 20th Oct. 1866; Govt. of India's No. 53-A-I., dated 11th March 1869.	16,492	.....	.....	400	16,892	Completed.
189	Tinnevelly.	Streeviguntum Anicut Project.	8,31,600	G. O., No. 3,365, dated 26th Oct. 1868; Govt. of India's No. 53-I., dated 11th Feb. 1869; G. O., No. 844, dated 16th March 1869.	1,04,469	3,64,451 G. O., No. 3,754, dated 25th Nov. 1869.	96,760	2,66,125	3,70,594	Anicut: the whole of the foundation of anicut and wing walls (with the exception of retaining wall to rough stone apron) completed. 1,000 feet built up to level of top of apron with the exception of cut-stone covering to 100 feet. 183 feet of body of anicut built five and a quarter feet high, 400 feet 3½ feet high, southern wing wall six feet high. South main channel to Cadamba Tank, Carnum channel, Autoor channel, Tulukan channel, Tulukan and Ellappa Naiken Tanks nearly completed. Anoodiar Tank two-thirds completed. Northern main channel nearly completed, until filled up by the late floods; about 160,000 cubic yards earth-work on the northern tanks completed. Masonry works: bridge west of Tricalore, built five feet above foundation. Tricalore bridge: all work done except plastering. Authoor head sluice and Cadumba tank head sluice nearly finished. Authoor aqueduct, Trichendoor road bridge, Yeral road bridge completed. Keelpidagay head sluice nearly completed. Savaramungalum road bridge: foundations laid. Perungulam road bridge built five feet above foundations. Bridge at Siruthnudu, abutments and wing walls on one side two feet above foundations. Paliacovil road bridge three feet above foundations. Pottalcolum calingulah three feet above foundations. Maroothany calingulah four feet above foundations. Opar Oday dam foundation laid six feet. Tulukan calingulah foundations three feet high. Ammenpuram calingulah foundations three feet high. Carnum calingulah three feet high. Ellapa Naiken tank calingulah nearly completed. Anoodiar Tank calingulah foundations laid.

(Signed) J. MULLINS, Major, R. E.,
Acting Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department, 3rd March 1870.

No. 52. ORDER THEREON, 3rd March 1870, No. 683.

IRRIGATION, No. 3.

ORDERED that the following letter be sent:—

(Here enter, No. 684, dated 3rd March 1870.)

(True Extract.)

(Signed) J. MULLIONS, Major R.E.,
Acting Joint Secretary to Government.

Exd. I. F. Bantleman.

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PUBLIC WORKS DEPARTMENT,

FORT ST. GEORGE, *3rd March* 1870.

No. 684.

No. 53.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

IRRIGATION, No. 4.

SIR,—I am directed to transmit, for the information of the Government of India, the Progress Report, for the quarter ended the 31st December last, of all irrigation-works which are being carried out from funds supplied from the Extraordinary Grant.

2. The instructions contained in your letter No. 67-I dated 8th February 1870 will, I am to state, be attended to in preparing the report for the quarter ending 31st March.

I have the honour to be,
Sir,
Your most obedient servant,

Major, R.E.,
Acting Joint Secretary to Government.

Exd. F. R. Bantleman.

Public Works Department
No 683 105

Proceedings of the Madras Government
Under date the 3rd March/70

Read the following

From The Ag Supdg Engineer 1st D.—/ H.E. No. Dated 15th January 1870/
From Superintdg Engineer—2nd D.—/ H.E. No. " 27th —"—"/
From —"— —"—3rd D.—/ H.E. No " 26th —"—"/
From Ag —"— —"—4th D.—/ H.E. No 5209 " 22nd —"—"/
From Supdg Engr.—5th D.—/ H.E. No 176 " 22nd —"—"/
From —do— —do—6th D.—/ H.E. No " 3rd February 1870/
From Offg Supdg Engineer—8th D.—/ H.E. No —" 19th January 1870/

No. 683

Ordered that the following letter be sent.

(Sd) J. Mullins Asst Secy to Govt

To

The Secretary to the Govt of India. P.W. Dept

Sir,

I am directed to transmit, for the information of the Govt of India, the Progress Report, for the quarter ended the 31st December last, of all irrigation works which are being carried out from funds supplied from the Extraordinary Grant.

I have &c

(Sd) J. Mullins
Asst Secy to Govt

Dept 7/3/70 sent me Copy of Govt No 683 of 1870.

34 Copies of Govt No 683 of 1870 sent by Bengal on the same date.

14/2/70

15/2/70

Govt. of {1870} Works.

PUBLIC WORKS.

To The Secretary to the Govt. of India

Dated

Rcd. Encl

G. O. 3rd March 1870. No. 683 to 686

Nos. 445 to 521 & 553

Irrigation Works. The Progress Reports for all irrigation works which are under execution from funds supplied from the Extraordinary Grant for the last quarter of 1869 for-warded to the Govt. of India.

Irrigation Works. Paying orders on the Statements shewing the progress of Irrigation works under execution from funds supplied from the Extraordinary Grant, for the last quarter of 1869.