M.R.O. 1—77,006—8-6-37.

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(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 3020 Press / ~~Mis.~~

427 to 434

Dated 19-12- 1842.

Not to be folded or roughly handled

Proceedings of the Madras Governemnt, Public Works Department,
19th December 1872.

Read the following papers :—

No. 427.	From the Superintending Engineer, 1st Division.	(Here enter No. —, dated 4th November 1872.)
No. 428.	From do.	do., 2nd do. (Here enter No. —, dated 26th October 1872.)
No. 429.	From do.	do., 3rd do. (Here enter No. —, dated 8th October 1872.)
No. 430.	From do.	do., 4th do. (Here enter No. 2,892, dated 5th October 1872.)
No. 431.	From do.	do., 5th do. (Here enter No. 177, dated 7th November 1872.)
No. 432.	From do.	do., 6th do. (Here enter No. —, dated 29th November 1872.)
No. 433.	From do.	do., 8th do. (Here enter No. —, dated 5th November 1872.)

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant for the Quarter ended 30th September 1872.

Name of Work.	Amount of Estimate.	Current year's grant.	Expenditure		Total Expenditure to date.	Succinct account showing the state to which the works have been advanced up to date.
			During the quarter.	During the current year.		
	RS.	RS.	RS.	RS.	RS.	
Extension of Irrigation from Eastern Delta.	10,80,800	1,00,000	27,389	80,115	3,32,644	*Lock at Thossipoody.* Excavating foundations and filling in ... ... 1·0 Rough-stone-in-chunam ... ... 0·97 Cut-stone coping and flooring ... ... 0·95 Brick-in-chunam ... ... 1·0 Cut-stone quoins ... ... 1·0 Rough-stone apron ... ... 1·0 Plastering with two coats of chunam ... ... 0·33 Concrete ... ... 1·0 *Calingulah at Thossipoody.* Excavating foundations and filling in ... ... 0·85 Concrete ... ... 1·0 Rough-stone-in-chunam ... ... 0.75 Cut-stone-in-chunam ... ... 0·78 Rough-stone apron ... ... 1·0 *Lock at Chintapilly.* Excavating foundations and filling in ... ... 1 0 Concrete ... ... 1·0 Rough-stone-in-chunam ... ... 0·97 Cut-stone quoins ... ... 0·92 Do. coping and flooring ... ... 0·54 Brick-in-chunam ... ... 1·0 Rough-stone apron ... ... 1·0 Plastering with two coats of chunam ... ... 0·33 *Calingulah at Chintapilly.* Excavating foundations and filling in ... ... 0·75 Concrete ... ... 1·0 Rough-stone-in-chunam ... ... 0·8

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

Name of Work.	Amount of Estimate.	Current year's grant.	Expenditure		Total Expenditure to date.	Succinct account showing the state to which the works have been advanced up to date.
			During the quarter.	During the current year.		
	RS.	RS.	RS.	RS.	RS.	
						Lock at Covoor.—(Concluded.) Brick-in-chunam ... ... 1·0 Rough-stone apron ... ... 0·26 Plastering ... ... 0·08 *Improving Cocanada Canal*—Earth-work ... ... 0·79 *Thossipoody North Side Channel*—Completed ... ... 1·0 *Do. South do.* — Do. ... ... 1·0 *Thooliabaga Drain*—Earth-work ... ... 0·66 *Kotokooloor Drain*—Completed ... ... 1·0 *Nadurabada Aqueduct*— Do. ... ... 1·0 *Escape over Bheemaverum Aqueduct-Wall*—Completed ... 1·0 *Biccavole Drain*—Earth-work ... ... 0 02 *Do. No.* 1 *Drop*—Completed ... ... 1·0 *Do.* ,, 2 *do.* — Do. ... ... 1·0 *Do. Ventoor Calingulah*—Completed ... ... 1·0 *Bheemaverum Sluice.* Foundations ... ... 0·80 Rough-stone-in-chunam ... ... 0·49 Cut-stone ... ... 0·50 Concrete ... ... 1·00 *Thapaswaram New Lock*—Materials being collected. *Nursapur Canal.*
Extension of Irrigation from Western Delta.	13,04,640	2,00,000	22,886	49,846	2,75,475	Earth-work ... ... 0·28 Masonry works ... ... 0·32 Minor channels and masonries ... ... 0·23 *Bank Canal*—Masonries above drains ... ... 0·44 *Venkia and Weyaru*—Masonry works ... ... 0·2 *Restoring navigation with Weyaru.* Earth-work ... ... 0·82 Masonry work ... ... 0·55

Proceedings of the Madras Government, Public Works Department, 19th December 1872.

Cut-stone	0·55
Rough-stone apron	1 0
Lock at Madapad.	
Excavating foundations and filling in	0·75
Concrete	1·0
Cut-stone coping and flooring	0·3
Rough-stone-in-chunam	0·84
Cut-stone quoins	0·35
Brick-in-chunam	0·25
Rough-stone	0·77
Calingulah at Madapad.	
Excavating foundations and filling in	0·75
Concrete	1·0
Rough-stone-in-chunam	0·88
Cut-stone-in-chunam	0·7
Rough-stone apron	0·92
Calingulah at Head of Thooliabaga Drain.	
Excavating foundations and filling in	0·75
Concrete	1·0
Rough-stone-in-chunam	0·74
Cut-stone-in-chunam	0·46
Rough-stone apron	0·24
Rest House at Chintapilly.	
Excavating foundations and filling in	1·0
Rough-stone-in-chunam	1·0
Brick-in-chunam	0·92
Arch-work	1·0
Mud wall	0·9
Concrete	1·0
Lock at Covoor.	
Foundations	0·75
Concrete	1·00
Rough-stone-in-chunam	0·901
Cut-stone flooring	0·38
Do. quoins	0 48

Enlargement, extension, and improvement of the Channels in the Masulipatam Section of the Kistna Delta.	1,83,100	20,000	2,750	4,914	1,50,396

Attilli Canal.	
Earth-work	0·02
Masonry works	0·118
Minor channels and masonries	0·09
Yanamaduru Drain—Earthwork	0·16
Bondada and Rayacuduru—Earthwork	0·14
Caza Drain— Earth-work	0·19
Bagaswarum Drain— Do.	0·47
Minor Drainages— Do.	0·07
Drain west of Nursapur Canal—Earth-work	0·81
Do. do. —Masonry work	0·95
Ellore Canal—Masonry works	0 24
Mid-Level Channel.	
Earth-work	0·84
Masonry works	0 75
Low-Level Channel.	
Earth-work	0·83
Masonry works, etc.	0·69
Pundicodu Drain.	
Earth-work	0·85
Masonry works	1·00
Drainage from 9½ Mile of Mid-Level Channel and Sundry Drains.	
Earth-work	0·14
Masonry works	0·5
Drainage Diversion.	
Earthwork	0·7
Masonry works—Material collected.	
Additional Surplus Weir near Head of Ellore Canal	0·2
Rest-houses	0 8
Masulipatam Canal.	
From 1st to 4th Mile	0·66
From 4th to 12½ ,,	0·67
Pulliru.	
From Kaakupad to Head of Polrazucodu	0·96
Masonry works	1·0

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

Name of Work.	Amount of Estimate.	Current year's grant.	Expenditure: During the quarter.	Expenditure: During the current year.	Total Expenditure to date.	Succinct account showing the state to which the works have been advanced up to date.
	Rs.	Rs.	Rs.	Rs.	Rs.	
Widening the head of Masulipatam Canal for 1,000 yards from the anicut to the head of Ellore branch.	1,13,530	25,000	1,846	4,047	36,661	Earth-work ... ... 0·41 Masonry works ... ... 0·29
Sloping down the banks of the Main Canal from the southern flank of the anicut and enlarging the head of Main Canal from Seetanagram to Doogeralla.	2,76,400	25,000	1,051	4,306	2,23,675	Earth-work ... ... 0·95 Masonry works ... ... 1·0
Enlargement and improvement of Ryves' Channel and its branches and construction of the masonry works.	4,14,193	30,000	11,277	21,861	1,88,423	Head-sluice and bridge ... ... 0·92 Head of channel ... ... 0·63 Three accommodation bridges—Materials collected. Enlarging and improving Ryves' Channel ... ... 0·88 Do. do. Branch do. ... ... 0·99 Masonry works ... ... 0·66 Earth-work ... ... 0·94 Masonry works ... ... 0·80 *Rapid at Doogeralla.* Earth-work ... ... 0·94 Revetment ... ... 0·84 Masonry works ... ... 0·74 *Main Reservoir.* Earth-work ... ... 1·15 Revetment ... ... 0·79 Turfing ... ... 0·94 Masonry ... ... 1·13 *Channel South of Pennair.* Earth-work 0 84
Extension of Commamore Channel and construction of the necessary masonry works.	1,95,770	20,000	20	176	1,75,908	
Improvements to the Survapully Channel.	4,20,060	65,000	7,764	22,531	3,57,864	
Anicut across the Vellaur River at Pelandorai.	1,98,235	60,000	6,187	11,988	83,177	Rubble-pitching ... ... 0·56 Masonry works ... ... 0·99 *Anicut.* Brick-work-in-chunam ... ... 0·44 Concrete work ... ... 0·43 Cut-stone do. ... ... 0·13 *Head-sluice.* Brick-work in chunam ... ... 0·70 Cut-stone work ... ... 1·00 *Main Channel.* Earth-work ... ... 0·44 *Masonry Buildings.* Two Bridges on the 9th and 12th miles of the Main Channel are in progress. *Dam across the Vennaur at the Vettaur Head.* *Vennaur Sluices.* Excavating foundation ... ... 1·00 Baling ... ... 1·00 Centring ... ... ·10 Brick-in-chunam... ... ... ·89 Plastering ... ... ·44 Pointing ... ... Cut-stone ... ... ·71 Shutters ... ... 1·00 Sundries ... ... ·62 *Vettaur Sluices.* Excavating foundation ... ... 1 00 Baling ... ... 1·00 Centring ... ... Brick-in-chunam ... ... ·87 Plastering ... ... ·52 Pointing ... ... ·19 Cut-stone... ... ... ·58 Shutters ... ... ·12 Sundries ... ... ·41
Regulators for the principal branches of the Vennaur.	1,97,240	56,000	6,100	28,173	1,58,114	

Proceedings of the Madras Government, Public Works Department, 19th December 1872.

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

Name of Work.	Amount of Estimate.	Current year's grant.	Expenditure		Total Expenditure to date.	Succinct account showing the state to which the works have been advanced up to date.
			During the quarter.	During the current year.		
	RS.	RS.	RS.	RS.	RS.	
						Dam across the Pamaniaur and Coryaur Heads.
						Brick-in-chunam ... ... ·78
						Cut-stone ... ... ·70
						Baling ... ... 1·00
						Shutters ... ... ·52
						Earth-work ... ... ·90
						Excavating foundation ... ... 1·00
						Durbah rollers, pegs, Durbah facing ... ... ·80
						Compensation ... ... 1·00
						Dam across the Pandaviaur Head.
						Brick-in-chunam ... ... ·78
						Excavation ... ... 1·00
						Baling ... ... 1·00
						Cut-stone ... ... 1·27
						Store-shed ... ... 1·00
						Dam across the Vellyaur Head.
						Brick-in-chunam ... ... ·65
						Excavation ... ... 1·00
						Baling ... ... 1·00
						Cut-stone ... ... ·63
						Store-shed ... ... 1·00
Streevigoontum Anicut ...	8,31,600	1,51,000	49,927	79,641	7,37,263	Anicut ... ... ·91
						Head-sluices ... ... ·77
						Masonry work, north side ... ... ·69
						Do. south side ... ... ·88
						North channel ... ... ·78
						Do. tanks ... ... ·86
						South channels ... ... ·95
						Do. tank—completed.
						The foundations of the anicut are completely finished. The body is raised to 3¾ feet above the level of the cut-stone flooring. The rough-stone apron is nearly finished, and the wing-walls are built up to heights of from 12′ to 20′. All the masonry works are in active progress, and will be completed by the end of October, with the exception of Oopar Odai Dam. All earth-works are nearly completed, with the exception of field channels, which are being marked out.

Statement showing the nature and progress of all preliminary Surveys and inquiries under prosecution in connexion with new Irrigation Projects intended to be carried out from Loan Funds for Quarter ended 30th September 1872.

District.	Name of Project.	Particulars of progress of investigation.
Ganjam ...	Rooshkoolia Project ...	44 miles levelled, traversed, and contoured. 20 cross sections of nullahs in connexion with Ichapore Irrigation Channel.
Do. ...	Mullada Tumpara Project ...	56½ miles levelled and traversed, and some miles contoured. 16 cross sections of Korakory Nullah. 43 do. of do. Channel. *N. B.*—In July, August, and September Rooshkoolia Project with Boradapilly and Godahallow Reservoirs was completed and forwarded to Chief Engineer for Irrigation. Papers with Chief Engineer for Irrigation.
Do. ...	Vamsadara River or Chicacole Project.	Project is under revision.
Godavery ...	Central Delta Project ...	Nearly completed.
Do. ...	Unnamalunka do. ...	Plans and estimates for irrigation and drainage
Kistna	Eastern Delta	of the Kykalur Section completed. The field work for the other sections is in progress, and will be completed shortly.
Do.	Western Delta	Plans and estimates for the extension of irrigation and for the improvement of the drainage with Superintending Engineer.
Nellore ...	Survey operations in connexion with Suvapully Project.	Not necessary.
Tinnevelly ...	Numbiar River Irrigation ...	Surveys and levels completed, but work not yet plotted.
Do. ...	The improvement and extension of irrigation under the Tambrapoorny and its tributaries.	Levels and sections of all the Tambrapoorny channels, except Nathyuny Channel, completed and plotted.
Madura ...	Perryaur Project	Plans and estimates with Chief Engineer for Irrigation.

No. 434. ORDER THEREON, 19th December 1872, No. 3,020.

IRRIGATION, No. 28.

ORDERED that the above statements be tabulated and forwarded to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

To the Chief Engineer for Irrigation.

Exd. A. S. Rodgers.

~~No 3020~~

Public Works Dept

Proceedings of the Madras Government.

Read the following papers.

From The Supt Engr 1st Dn C.B.N. dated 4 November 1872.

" " 2 Dn C.B.N. " 26 October "

" " 3 Dn C.B.N. " 8th do "

" " 4 Dn C.B.N 2092 " 5th do "

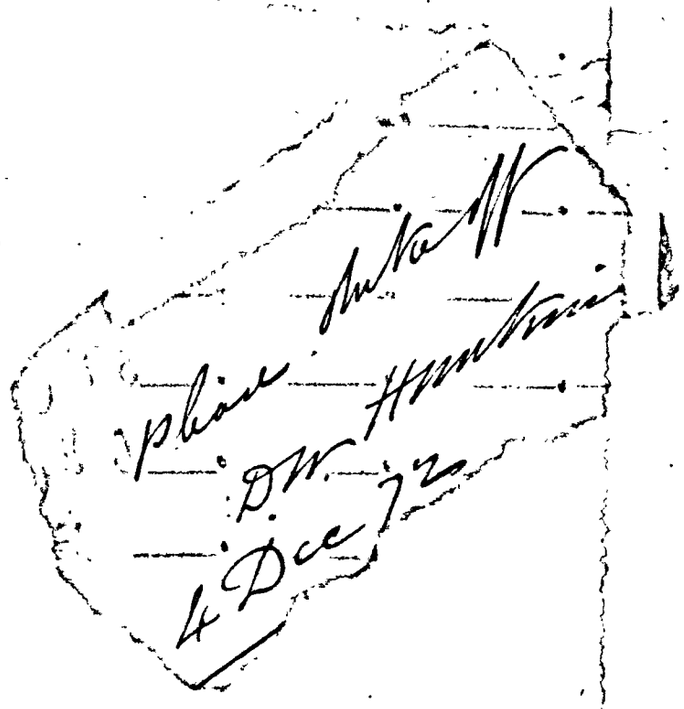
" " 5 Dn C.B.N 177 " 7 Novr "

" " 6 Dn C.B.N. " 29 do "

" " 8 Dn C.B.N. " 5th do "

Ordered that the above statements be tabulated and forwarded to the Government of India.

Desp 23/12/72 to the Ch: Engr for Irrigation & the Govt of India.


plan for W
D.W. Hamilton
4 Dec '72

Govt. of {1872} Madras.

PUBLIC WORKS.

To The Chief Engr for Irrigation

Dated

Recd. Encl.

G. O., 19 Dec. 1872, No. 3020-

Nos. 427 & 434

Irrigation works. Statements

Showing the progress of Agricultural works under execution from the Extraordinary Grants & of the Surveys & inquiries under prosecution in connection with new Irrigation Projects intended to be carried out from Loan Funds for Quarter ended 30th Septr 1872 and the Amounts