M.R.O. 1—77,006—8-6-37.

(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. 3395 Press
570-571 Mis.

Dated 24-10- 1866.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 21th October 1866.

No. 570. Read the following letter from the Collector of the Kistna District, to the Secretary to Government, Department Public Works, dated Gudewada, 3rd October 1866, No. 33 :—

1. I have the honor to forward a letter from Colonel Winscom, covering an estimate duly counter-signed for widening the upper 3,000 feet of the canal at Bezoarah.

2. Great want of water is at times experienced towards the end of the season when the river is low, and any plan which will have the effect of increasing the supply will be very beneficial to the interests of the District.

From the Superintending Engineer, 2nd Division, to the Secretary to Government, Department Public Works, dated Masulipatam, 29th September 1866, No. 49.

1 Estimate, Rupees 20,080.
1 Sketch of the Main Canal.

1. I have the honor to forward plans and estimates, as per margin, amounting to Rupees 20,080, for widening the head of the main duct on the Masulipatam side of the Kistna Delta from twenty-five yards to forty yards for a distance of 3,000 feet, that is, to a little beyond the bifurcation of the Masulipatam and Ellore Canals.

2. This forms a small part of the general scheme proposed by Colonel Anderson in his letter No. 143, dated 6th January 1863, and sanctioned by Government in their Proceedings No. 430, dated 12th February 1864. My reason for now submitting it has been mentioned in my letter to your address, No. 44, dated 24th instant, viz., the supply of water now obtainable at certain times is scarcely equal to the demand, and I hope, by this widening, to increase the surface slope of the water, between the bifurcation and Kunkepaud Lock on the Bunder Canal, and Ryves' Channel Head Sluice on the Ellore Canal, and thus to command more water. The present widening will cause the water to assume a higher level at the bifurcation by throwing in a larger quantity from the river than has hitherto been the case.

3. This portion of the main feeder will eventually have to be widened to 180 feet, as explained by Colonel Anderson in his letter before alluded to ; but I am of opinion that if the enlargement I now propose be made, it will be unnecessary to increase it, until the future widenings of the Poollairoo, Ryves' Channel, Ellore Canal, and Eastern Bank Channel have been considerably advanced.

4. To save space on the river side of the channel, as well as to strengthen that bank, I have allowed a rough stone revetment for 1,000 feet, and made the slope of side only 1 to 1. The excavation for the same distance is almost entirely taken from the Bezoarah bank, as the river is too close to permit any excavation from the right bank to be made with safety, the water being found to ooze through the banks into the canal in heavy floods.

From the Superintending Engineer, 2nd Division, to the Collector of the Kistna District, dated Masulipatam, 29th September 1866, No. 116.

In continuation of my letter No. 115 of 27th instant, I have the honor to forward an estimate for widening the Bezoarah Main Canal for a distance of 3,000 feet by fifteen yards at the bottom, amounting to Rupees 20,080, together with my letter to the Secretary to Government, No. 49, dated 29th instant, and request you will be so good as to submit them to Government for sanction after affixing your counter-signature.

No. 571. ORDER THEREON, 24th October 1866, No. 3,395.

CIVIL WORKS, No. 106.

1. The Government approve of the estimate of Rupees 20,080 which is submitted with the foregoing papers, for widening the head of the Main Channel on the Masulipatam side of the Kistna

Proceedings of the Madras Government, Public Works Department, 24th October 1866.

Anicut for a distance of 3,000 feet with a view to securing an increased supply of water from the river.

2. An allotment for the work will, if possible, be made in the Budget of 1867-68.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 2nd Division.
,, Collector of Kistna District.
,, Controller of Public Works Accounts.
,, Accountant General.

Exd. J. Tulloch

No 249-

Supply. Anicut Kistna Dt.

Masulipatam
29th September 1866.

From

Lieut Col G. T. Anderson R.E
Superintending Engineer
2d Division

To

Lt Col Charles A Orr, R.E.
Secretary to Government
P. W. D.

Sir,

I have the honor to forward plans and Estimates as per margin. Amounting to Rs 20,080 for widening the Head of the Main Canal and the Masulipatam Side of the Kistna Delta from 25 Yards to 40 Yards for a distance of 3000 ft. that is, to a little beyond the Bifurcation of the Masulipatam and Ellore Canals.—

1 Estimate Rs 20,080
1 Sketch of the Main Canal
2

2 This forms a small part of the General Scheme proposed by Colonel Anderson in his letter No 143 dated 6th January 1863 & sanctioned by Government in their Proceedings No 430 dated 12th February 1864. In my Reports forwarded subsequently it has been mentioned in my letters to your address No 44 dated 24th instant, that the supply of water now obtainable at certain

certain times is scarcely equal to the demand.
And I hope, by thus widening, to increase the
seaward slope of the water between the
bifurcation and Hunterspoint Locks on the
Dundee Canal; and Ryans Channel Head-
Sluice and the Ellore Canal; and thus to com-
mand more water. The proposed widening
will cause the water to assume a higher
level at the bifurcation by increasing in a
larger quantity from the seven than how
soever to lower the Case.

3. This portion of the inner feeder will
eventually have to be widened to 180 feet,
as explained by Col. Anderson in his
letter before alluded to. Such I am of opini-
on that if the enlargement I now propose,
be made, it will be unnecessary to increase
it, until the future widenings of the Pontai-
-roo, Ryans Channel, Ellore Canal, and
Eastern Bank Channel, have been consid-
-erably advanced.

4. To save Piers on the River side of
the Channels, as well as to keep them back
laundy, I have allowed a rough sloping fence of

for 1000 feet, & made the Slope of Side
only 1 to 1. The excavations for the same
distance almost entirely taken from the Bizoara
Bank, as the River is too close to permit
any excavation from the Right bank to
be made with safety. The water having found
to ooze through the bank into the Canal
in heavy floods.

I have the honor to be,
Sir,
Your most Obedt Servt
Geo Buckle Lieut RE
Supdg. Engineer Dr Dn

G.B.

No 116 | Supg. Engineers Office
Masulipatam
29th September 1866

From Lieut.-Col G. V. Wimscom R.E.
Supg. Engineer 2d Dn.

To G. Thornhill Esqre
Collector of Kistna Dist

Sir,

In continuation of my letter No. 115 of 27th instant, I have the honor to forward an Estimate for widening the Byrasah Drain Canal for a distance of 3000 feet by fifteen yards at the bottom amounting to Rs 20,080 together with my letter to the Secretary to Government No 491 of 29th instant and request you will be so good as to submit them to Government for sanction after affixing your Countersignature

I have the honor to be &c
(signed) G. V. Wimscom
Supg. Engr. 2d Dn

(True Copy)

G Thornhill
Collector

No 491 | Supg. Engineers Office
Masulipatam
29th September 1866

To
The Secretary to Government
Fort St George

Dated 29th September 1866

Subject Estimate for widening the Byrasah Drain Canal

Reference &c.

Submit for sanction Estimate for widening the Byrasah Drain Canal for a distance of 3000 feet by fifteen yards at the bottom amounting to Rs 20,080 as per Estimate accompanying the letter from the Collector of Kistna dated 29th instant.

Rs 20,080

Recd 1st Oct 1866

Rev. 4th Oct. 1866 No 1570

In a letter from the Collector of Kistna Dist. No. Yr. Secretary to Govt. P.W.D. Dated 22 October 1866.

No 33.

Forwarding for submission to Govt. for sanction an Estimate amounting to Rs 29980 for widening the Bejwada Main Canal for a distance of 3000 feet.

Rec'd. Oct. 26/66 L 4570

1

Estimate of the probable expence of Enlarging the head of the Main Channel from Bezoarah to a bottom width of 40 from 25 to 40 Yards for a distance from the head sluice of 3000 feet and of removing the bar at the 1000 feet.

	Depth of Cutting.		Width	Area	Lengths	Cubic Contents.
Section 1						
East side -	4+8.6 / 2	= 6.3				
	6.6+16.7 / 2	= 11.9				
	14.9+23.1 / 2	= 19.0				
		23.1				
		23.9				
		83.10	×	10.		838
Slopes.	25.4 / 2	= 12.8	×	38		481.
West side -		1.9				
		2.9				
	5.3 / 2	= 2.8.				
		7.2	×	10.		72.
Dowlemiz.		3.6				
		3.0				
		3.0				
		2.0				
		11.6	×	10.		115
					1506 × 1000.	1506.000
Section No 2.						
East side -	5 / 2	= 2.6				
	5+9.6 / 2	= 7.3				
	9.6+20.5 / 2	= 15.0				
		24.9	×	10.		247
		20.5	×	5		102
slopes.	22 / 2	= 11.0	×	33.		363.
West side -	2.2+6.8 / 2	= 4.5				
	6.8+9.10 / 2	= 8.3				
		12.8	×	10		127
	9.10+16.7 / 2	= 13.2	×	5		66
slopes	20 / 2	= 10.0	×	20.		200
					1105 × 500	552500
				Carried over		2058.500

	Depth of Cutting	Width	Area	Length	Cubic Contents.
		Brought over.			2068500
Section No 3.					
East Side.		1-9			
	1-9+6-3 / 2	= 4-0			
		5-0			
	5+2-6 / 2	= 3-9			
	2-6 / 2	= 1-3			
		15-9	× 10.		157.
West Side.	4-6 / 2	= 2-3			
	4-6+8-3 / 2	= 6-5			
	8-3+14 / 2	= 11-2			
	14-0+20-9 / 2	17-4			
		21-9			
		21-1			
Slope.		13-11			
		4-5			
		98-4	× 10.		983
				1140.	× 500 570000
Section No 4					
West Side		1-0			
	1-0+4-6 / 2	= 2-9			
	4-6+8-2 / 2	= 6-4			
	8-2+10-8 / 2	= 9-5			
	10-8+20-1 / 2	= 15-5			
		21-0			
		21-3			
		21-9			
		98-11	× 10.		989
Slope.	23 / 2	= 11-6	× 23		264
				1253.	× 500 626500
Section No 5					
West Side.		1-3			
		2-6			
	2-6+5-9 / 2	= 4-2			
	5-9+10 / 2	7-11			
		15-10			
				Carried over	3255000

	Depth of Cutting	Width	Area	Length	Cubic Contents.
Carried over	15-10	"	"	"	3255000
	10-0+15 / 2	= 12-6			11
	15+21-2 / 2	10-1			
		21-4			
	67-9	× 10			677
Slopes.	21-4 / 2	= 10-8	× 21-4		228
				905	× 500 452500
			Total C/f.		3707500
			or		
			Cubic Yards.		137314 22/27

Rough sketch: Vertical depth of Cutting — Depth, Width, Length — C/f. — 23¼ × 2¼ × 1000 = 52312 — or — Cubic yards. 1937½

Abstract.

137315	Cubic Yards of Excavation at 2 Annas per Cubic Yard.	17164-6-0
1937½	Cubic Yards of Rough Stone Lifting, at Rs 1-4-0 per C/f.	2421-14-0,
	Contingencies at 2½ per cent.	493-12-0,
	Total Rupees.	20080-0-0

Supt Engineer Office
Mavelikara
29th September 1866

Quartermaster Sergt
Supt Engineer Office

Collector

No. 33.

Kistna District Collrs
Circuit Kachoni Gudewada
3d October 1866

From

C. Kornhill Esqre.
Collector of Kistna Dist

To The Secretary
to Government D.P.W
Fort St George

Sir,

1. I have the honor to forward a letter from Col. Vincent Commissioned for widening the upper 3000 feet of the Canal at Bezwada.

2 Great want of water is at times experienced towards the end of the season, when the river is low, and any plan

Estimate for enlarging the Head of the Main Channel from Bezwada to a point 3000 feet distant.

For a distance from the Head Sluices of 300 feet and of Rupees 1000 feet. Amounting to Rs 20000

Rupees 21000/Rds 1570

plan which will have the
effect of increasing the supply,
will be very beneficial to the
interests of the District.

I have the honor to be
sir,
your most obed! Serv!

J Mountcastle
Collector

Gº Tuttle

No. 3395

Public Works Department

Proceedings of the Madras Government

Under date the 24th October 1866

Read the following

From The Collector

Kistna District (H.L. No. 33 dated 3d October 1866)

The Government approve of the estimate of Rs. 20,080 which is submitted with the foregoing papers, for widening the head of the main channel on the Masulipatam side of the Kistna Anicut for a distance of 3000 feet with a view to securing an increased supply of water from the river—

An allotment for the work will if possible be made in the Budget of 1867/68—

To the Supt. Engr. 2d Dist.
— Collector of Kistna Dist.
— Auditor
— Account Genl.

Dept. Supt. Engr. 25th Oct.

28
5

From The Collector
Kistna District
To The Secretary
to Govt. P.W.D.
and Ry. Branch
Fort St. George

Dated 3d October 1866.

Rec'd 11th ditto

Entd. Cy. Letters Issued 2/8/66

No. 33.

Enclosures (4)

Forwarding a letter from Colonel Kinnear with an Estimate regarding widening the upper 3000 feet of the Canal at Bezwada.

Rs. 20,000.

Ex. 3395 - 24th Oct. 1866

P. D. 1866. Despatch

Pro. of Govt for Octr

No 3395

Pro. of the Madras Govt

Dt 24. Octr 66.

An estimate of Rs.
20080 for widening the road of the main
Chaum Con the Masulipatam side of Kistna Anicut
a distance of 3000 feet approved, and
an allotment to be made for the
most pt, if possible, in the Budget
of 1867/68.

No 570. 5-11.