

**Chapter No. 20**  
**OUTLETS**

**Notes:-**

- (i) The term "discharge" wherever used in this Chapter means designed full supply discharge of the parent channel opposite the outlet.
- (ii) The Labour rates include the rehandling of materials within 100 metres.
- (iii) For outlets on Lined canals, the basic rate will be 20% extra over and above the rate for katcha canal.

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
20.1		<b>Earth work for outlet:-</b>									
(a)		Earth work for dismantling or construction of new pipe or barrel type outlets (including excavation, refilling, consolidation and dressing)									
(i)		Channel discharge upto 1.5 cums per second.									
			UNIT:-	Each							
I		<b>LABOUR</b>									
		Taking Output	6	Outlets							
(i)		Mazdoors		Each	7	136.69	956.83				
(ii)		Dresser		Each	1	143.81	143.81				
		TOTAL-I					1100.64				
		Sundries @ 1% i.e. on Rs. 1100.64					11.01				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1111.65					239.00				
		Labour cess @ 1% i.e. on Rs. 1350.65					13.51				
		Labour for	6	Outlets			<b>1364.16</b>				
		Labour for	1	Outlet			227.36	<b>227.36</b>		227.36	<b>227.36</b>
(ii)		Channel discharge exceeding 1.5 cum/s but upto 3 cum/s									
			UNIT:-	Each							
I		<b>LABOUR</b>									
		Taking output	4	Outlets							
(i)		Mazdoors		Each	7.5	136.69	1025.18				
(ii)		Dresser		Each	1	143.81	143.81				
		TOTAL-I					1168.99				
		Sundries @ 1% i.e. on Rs. 1168.99					11.69				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1180.67					253.85				
		Labour cess @ 1% i.e. on Rs. 1434.52					14.35				
		Labour for	4	Outlets			<b>1448.87</b>				
		Labour for	1	Outlet			362.22	<b>362.22</b>		362.22	<b>362.22</b>

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		Channel discharge exceeding 3 cum/s but upto 6 cum/s										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	3	136.69	410.07				
(ii)		Dresser			Each	1/3	143.81	47.94				
		TOTAL-I						458.01				
		Sundries @ 1% i.e. on Rs. 458.01						4.58				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 462.59						99.46				
		Labour cess @ 1% i.e. on Rs. 562.04						5.62				
		Labour for	1	Outlet				567.66	567.66		567.66	567.66
(iv)		Channel discharge exceeding 6 cum/s but upto 10 cum/s						-		-		
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	4.5	136.69	615.11				
(ii)		Dresser			Each	3/4	143.81	107.86				
		TOTAL-I						722.96				
		Sundries @ 1% i.e. on Rs. 722.96						7.23				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 730.19						156.99				
		Labour cess @ 1% i.e. on Rs. 887.18						8.87				
		Labour for	1	Outlet				896.06	896.06		896.06	896.06
(b)		Earth work involved in dismantling Open flume, A.P.M. or O.S.M. type Outlets (including excavation, refilling , consolidation and dressing )										
(i)		With 'H' upto 0.5 m										
		UNIT:-			Each							
I		LABOUR										
		Taking output	6	Outlets								
(i)		Mazdoors			Each	7	136.69	956.83				
(ii)		Dresser			Each	1	143.81	143.81				
		TOTAL-I						1100.64				
		Sundries @ 1% i.e. on Rs. 1100.64						11.01				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1111.65						239.00				
		Labour cess @ 1% i.e. on Rs. 1350.65						13.51				
		Labour for	6	Outlets				1364.16				
		Labour for	1	Outlet				227.36	227.36		227.36	227.36

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		With 'H' more than 0.5 m. but upto 0.9 m										
			UNIT:-	Each								
I		LABOUR										
(i)		Mazdoors			Each	3	136.69	410.07				
(ii)		Dresser			Each	1/3	143.81	47.94				
		TOTAL-I						458.01				
		Sundries @ 1% i.e. on Rs. 458.01						4.58				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 462.59						99.46				
		Labour cess @ 1% i.e. on Rs. 562.04						5.62				
		Labour for 1		Outlet				567.66	567.66		567.66	567.66
(iii)		With 'H' more than 0.9 m but upto 1.10m										
			UNIT:-	Each								
I		LABOUR										
(i)		Mazdoors			Each	4.5	136.69	615.11				
(ii)		Dresser			Each	3/4	143.81	107.86				
		TOTAL-I						722.96				
		Sundries @ 1% i.e. on Rs. 722.96						7.23				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 730.19						156.99				
		Labour cess @ 1% i.e. on Rs. 887.18						8.87				
		Labour for 1		Outlet				896.06	896.06		896.06	896.06

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
(c )		Earth work involved in dismantling gullet walls of outlets for adjusting 'Y' of A.P.M. or 'B' of open flume outlets:-									
(i)		With 'H' upto 0.5 m									
			UNIT:-	Each							
I		LABOUR									
			Taking output	5	Outlets						
(i)		Mazdoors		Each	2	136.69	273.38				
		TOTAL-I					273.38				
		Sundries @ 1% i.e. on Rs. 273.38					2.73				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 276.11					59.36				
		Labour cess @ 1% i.e. on Rs. 335.48					3.35				
			Labour for	5	Outlets		338.83				
			Labour for	1	Outlet		67.77	67.77		67.77	67.77
(ii)		With 'H' more than 0.5 m. but upto 0.9 m									
			UNIT:-	Each							
I		LABOUR									
			Taking output	4	Outlets						
(i)		Mazdoors		Each	5	136.69	683.45				
		TOTAL-I					683.45				
		Sundries @ 1% i.e. on Rs. 683.45					6.83				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 690.28					148.41				
		Labour cess @ 1% i.e. on Rs. 838.7					8.39				
			Labour for	4	Outlets		847.08				
			Labour for	1	Outlet		211.77	211.77		211.77	211.77
(iii)		With 'H' more than 0.9 m but upto 1.10m									
			UNIT:-	Each							
I		LABOUR									
(i)		Mazdoors		Each	2	136.69	273.38				
		TOTAL-I					273.38				
		Sundries @ 1% i.e. on Rs. 273.38					2.73				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 276.11					59.36				
		Labour cess @ 1% i.e. on Rs. 335.48					3.35				
			Labour for	1	Outlet		338.83	338.83		338.83	338.83

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(d)		Earth work involved in constructing new O.F., A.P.M. or O.S.M. type outlets.										
(i)		With 'H' upto 0.5 m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	4	136.69	546.76				
		TOTAL-I						546.76				
		Sundries @ 1% i.e. on Rs. 546.76						5.47				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 552.23						118.73				
		Labour cess @ 1% i.e. on Rs. 670.96						6.71				
		Labour for 1			Outlet			677.67	677.67		677.67	677.67
(ii)		With 'H' more than 0.5 m. but upto 0.9 m						-		-		
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	7.75	136.69	1059.35				
		TOTAL-I						1059.35				
		Sundries @ 1% i.e. on Rs. 1059.35						10.59				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1069.94						230.04				
		Labour cess @ 1% i.e. on Rs. 1299.98						13.00				
		Labour for 1			Outlet			1312.98	1312.98		1312.98	1312.98
(iii)		With 'H' more than 0.9 m but upto 1.10m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	11.5	136.69	1571.94				
		TOTAL-I						1571.94				
		Sundries @ 1% i.e. on Rs. 1571.94						15.72				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1587.65						341.35				
		Labour cess @ 1% i.e. on Rs. 1929						19.29				
		Labour for 1			Outlet			1948.29	1948.29		1948.29	1948.29

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.2		Dismantling outlets including removal of dismantled material involving lead upto 100 metres.										
(a)		Pipe or barrel type outlets										
(i)		Channel discharge upto 1.5 cum/s										
		UNIT:-			Each							
I		LABOUR										
		Taking output			4	Outlets						
(i)		Mazdoors			Each	5	136.69	683.45				
		TOTAL-I						683.45				
		Sundries' @1% i.e. on 683.45						6.83				
		Add Contractor's profit and overhead charges @ 21.5% i.e. on 690.28						148.41				
		Labour cess @ 1% i.e. on Rs. 838.7						8.39				
		Labour for			4	Outlets		847.08				
		Labour for			1	Outlet		211.77	211.77	211.77	211.77	211.77
(ii)		Channel discharge above 1.5 cum/s but upto 3 cum/s										
		UNIT:-			Each							
I		LABOUR										
		Taking output			3	Outlets						
(i)		Mazdoors			Each	5	136.69	683.45				
		TOTAL-I						683.45				
		Sundries @ 1% i.e. on Rs. 683.45						6.83				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 690.28						148.41				
		Labour cess @ 1% i.e. on Rs. 838.7						8.39				
		Labour for			3	Outlets		847.08				
		Labour for			1	Outlet		282.36	282.36	282.36	282.36	282.36

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		Channel discharge above 3 cum/s but upto 6 cum/s										
		UNIT:-		Each								
I		LABOUR										
		Taking output		2	Outlets							
(i)		Mazdoors			Each	3.75	136.69	512.59				
		TOTAL-I						512.59				
		Sundries @ 1% i.e. on Rs. 512.59						5.13				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 517.71						111.31				
		Labour cess @ 1% i.e. on Rs. 629.02						6.29				
		Labour for 2		Outlets				635.31				
		Labour for 1		Outlet				317.66	317.66	317.66	317.66	
(iv)		Channel discharge above 6 cum/s but upto 10 cum/s										
		UNIT:-		Each								
I		LABOUR										
		Taking output		2	Outlets							
(i)		Mazdoors			Each	4	136.69	546.76				
		TOTAL-I						546.76				
		Sundries @ 1% i.e. on Rs. 546.76						5.47				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 552.23						118.73				
		Labour cess @ 1% i.e. on Rs. 670.96						6.71				
		Labour for 2		Outlets				677.67				
		Labour for 1		Outlet				338.83	338.83	338.83	338.83	

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		Dismantling O.F., A.P.M. or O.S.M. type outlets consisting of total dismantling i.e. concrete R.C. Slab and cement masonry.										
(i)		With 'H' upto 0.5 m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	7	136.69	956.83				
		TOTAL						956.83				
		Sundries @ 1% i.e. on Rs. 956.83						9.57				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 966.4						207.78				
		Labour cess @ 1% i.e. on Rs. 1174.17						11.74				
		Labour for 1			Outlet			1185.92	1185.92		1185.92	1185.92
(ii)		With 'H' more than 0.5 m. but upto 0.9 m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	13.5	136.69	1845.32				
		TOTAL-I						1845.32				
		Sundries @ 1% i.e. on Rs. 1845.32						18.45				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1863.77						400.71				
		Labour cess @ 1% i.e. on Rs. 2264.48						22.64				
		Labour for 1			Outlet			2287.12	2287.12		2287.12	2287.12
(iii)		With 'H' more than 0.9 m but upto 1.10m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	20	136.69	2733.80				
		TOTAL-I						2733.80				
		Sundries @ 1% i.e. on Rs. 2733.8						27.34				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 2761.14						593.64				
		Labour cess @ 1% i.e. on Rs. 3354.78						33.55				
		Labour for 1			Outlet			3388.33	3388.33		3388.33	3388.33



Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(c)		Dismantling O.F., A.P.M. Or O.S.M. type outlets involving dismantling cement masonry and removing of precast R.C. Slab										
(i)		With 'H' upto 0.5 m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	5	136.69	683.45				
		TOTAL-I						683.45				
		Sundries @ 1% i.e. on Rs. 683.45						6.83				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 690.28						148.41				
		Labour cess @ 1% i.e. on Rs. 838.7						8.39				
		Labour for 1			Outlet			847.08	847.08		847.08	847.08
(ii)		With 'H' more than 0.5 m. but upto 0.9 m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	10.75	136.69	1469.42				
		TOTAL-I						1469.42				
		Sundries @ 1% i.e. on Rs. 1469.42						14.69				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1484.11						319.08				
		Labour cess @ 1% i.e. on Rs. 1803.2						18.03				
		Labour for 1			Outlet			1821.23	1821.23		1821.23	1821.23
(iii)		With 'H' more than 0.9 m but upto 1.10m										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	16.5	136.69	2255.39				
		TOTAL-I						2255.39				
		Sundries @ 1% i.e. on Rs. 2255.39						22.55				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 2277.94						489.76				
		Labour cess @ 1% i.e. on Rs. 2767.7						27.68				
		Labour for 1			Outlet			2795.37	2795.37		2795.37	2795.37

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(d)		Dismantling tail cluster bifurcation :-										
(i)		Complete dismantling including concrete and masonry.										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	12	136.69	1640.28				
		TOTAL-I						1640.28				
		Sundries @ 1% i.e. on Rs. 1640.28						16.40				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1656.68						356.19				
		Labour cess @ 1% i.e. on Rs. 2012.87						20.13				
		Labour for 1			Outlet			2033.00	2033.00	2033.00	2033.00	2033.00
(ii)		Cement masonry only										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	8.75	136.69	1196.04				
		TOTAL-I						1196.04				
		Sundries @ 1% i.e. on Rs. 1196.04						11.96				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1208						259.72				
		Labour cess @ 1% i.e. on Rs. 1467.72						14.68				
		Labour for 1			Outlet			1482.39	1482.39	1482.39	1482.39	1482.39
(e)		Dismantling tail cluster triifurcation:-										
(i)		Complete dismantling including concrete and masonry.										
		UNIT:-			Each							
I		LABOUR										
(i)		Mazdoors			Each	16.75	136.69	2289.56				
		TOTAL-I						2289.56				
		Sundries @ 1% i.e. on Rs. 2289.56						22.90				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 2312.45						497.18				
		Labour cess @ 1% i.e. on Rs. 2809.63						28.10				
		Labour for 1			Outlet			2837.73	2837.73	2837.73	2837.73	2837.73

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		Cement masonry only										
			UNIT:-	Each								
I		LABOUR										
(i)		Mazdoors			Each	12	136.69	1640.28				
		TOTAL-I						1640.28				
		Sundries @ 1% i.e. on Rs. 1640.28						16.40				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1656.68						356.19				
		Labour cess @ 1% i.e. on Rs. 2012.87						20.13				
			Labour for 1	Outlet				2033.00	2033.00		2033.00	2033.00
(f)		Dismantling tail cluster quadrifurcation:-										
(i)		Complete dismantling including concrete and masonry										
			UNIT:-	Each								
I		LABOUR										
(i)		Mazdoors			Each	21.75	136.69	2973.01				
		TOTAL-I						2973.01				
		Sundries @ 1% i.e. on Rs. 2973.01						29.73				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 3002.74						645.59				
		Labour cess @ 1% i.e. on Rs. 3648.33						36.48				
			Labour for 1	Outlet				3684.81	3684.81		3684.81	3684.81
(ii)		Cement masonry only										
			UNIT:-	Each								
I		LABOUR										
(i)		Mazdoors			Each	15.75	136.69	2152.87				
		TOTAL-I						2152.87				
		Sundries @ 1% i.e. on Rs. 2152.87						21.53				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 2174.4						467.50				
		Labour cess @ 1% i.e. on Rs. 2641.89						26.42				
			Labour for 1	Outlet				2668.31	2668.31		2668.31	2668.31

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.3		<b>Making temporary A.P.M. Block and fixing at site</b>										
(a)		In case of new outlets where no dismantling and reconstructing of gullet walls is involved										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		Cement Concrete plain precast 1:2:4 (Rate as per item No. 10-12			cum	0.05	2186.75	109.34				
		(i) 0.3*0.3*0.3 =.027 cum										
		(ii) 1/4*22/7*0.3*0.3*0.3=.021 cum										
		.048 cum say .05 cum										
		TOTAL-I						109.34				
		Add for contractor's profit @ 10% i.e. on Rs. 109.34						10.93				
		Labour cess @ 1% i.e. on Rs. 120.27						1.20				
								121.47	121.47		121.47	121.47
II		<b>LABOUR</b>										
		Taking output			5	Outlets						
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	2	136.69	273.38				
	(iii)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						633.43				
		Sundries @ 1% i.e. on Rs. 633.43						6.33				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 639.76						137.55				
		Labour cess @ 1% i.e. on Rs. 777.31						7.77				
		Labour for			5	Outlets		785.09				
		Labour for			1	Outlet		157.02	157.02		157.02	157.02
		Cost for			1	Outlet			278.49			278.49

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
(b)		Extra for dismantling and reconstructing gullet walls where temporary A.P.M. block is to be fixed on existing outlet without change in width of gullet i.e. 'B'									
(i)		With 'H' upto 0.5 m							-		
		Unit:-		Each							
I		<b>MATERIALS</b>									
		(i) Average 'H' 0.45 metre (ii) Height of gullet wall 0.58 m say 0.60 metre (iii) Width of gullet wall to be dismantled=0.23 metre (iv) Length of Block=0.3 metre (v) Length of gullet walls to be dismantled allowing 0.15 m on either side =0.60 metre (vi) Cement masonry 1:5 (rate as per item No.11.5-1) 2*0.6*0.23*0.6= 0.1656 cum say 0.17 cum		cum	0.17	1920.54	326.49				
		TOTAL-I					326.49				
		Add for contractor's profit @ 10% i.e. on Rs. 326.49					32.65				
		Labour cess @ 1% i.e. on Rs. 359.14					3.59				
							362.73	362.73		362.73	362.73
II		<b>LABOUR</b>									
		Taking output 4		Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))		cum	0.17	196.83	33.46				
	(ii)	Mason		Each	1	223.36	223.36				
	(iii)	Mazdoors		Each	2	136.69	273.38				
	(iv)	Mazdoor Boy		Each	1	136.69	136.69				
		TOTAL-II					666.89				
		Sundries @ 1% i.e. on Rs. 666.89					6.67				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 673.56					144.82				
		Labour cess @ 1% i.e. on Rs. 818.38					8.18				
		Labour for 4		Outlets			826.56				
		Labour for 1		Outlet			206.64	206.64		206.64	206.64
		Cost for 1		Outlet				569.37			569.37

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		With 'H' more than 0.5 m. but upto 0.9 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Average 'H'= 0.70 metre (ii) Height of gullet walls= 0.88 say 0.90 metre (iii) Top 0.60 metre is 0.23 m and lower 0.30 is 0.34 m (iv) Length to be dismantled is same as in case of H upto 0.50 metre (v) Masonry 1:5 (Rate as per item No. 11.5-1) 2*0.60*0.23*0.60 =0.1656 2*0.60*0.345*0.30 = <u>0.1242</u> 0.2898 cum say: 0.29 cum			cum	0.29	1920.54	556.96				
		TOTAL-I						556.96				
		Add for contractor's profit @ 10% i.e. on Rs. 556.96						55.70				
		Labour cess @ 1% i.e. on Rs. 612.65						6.13				
								618.78	618.78	618.78	618.78	618.78
II		<b>LABOUR</b>										
		Taking output 6			Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.29	196.83	57.08				
	(ii)	Mason			Each	3	223.36	670.08				
	(iii)	Mazdoors			Each	5	136.69	683.45				
		TOTAL-II						1410.61				
		Sundries @ 1% i.e. on Rs. 1410.61						14.11				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1424.72						306.31				
		Labour cess @ 1% i.e. on Rs. 1731.03						17.31				
		Labour for 6	Outlets					1748.34				
		Labour for 1	Outlet					291.39	291.39	291.39	291.39	291.39
		Cost for 1	Outlet						910.17			910.17

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		With 'H' more than 0.9 m but upto 1.10m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Average 'H'= 1.0 metre (ii) Height of side wall= 1.11 metre say 1.10 metre (iii) Top 0.60 metre is 0.23 m and lower 0.50 metre is 0.345m (iv) Masonry 1:5 (Rate as per item No. 11.5-1) 2*0.60*0.23*0.60 =0.1656 2*0.60*0.345*0.50 = <u>0.2070</u> 0.3726 cum say: 0.373 cum			cum	0.373	1920.54	716.36				
		TOTAL-I						716.36				
		Add for contractor's profit @ 10% i.e. on Rs. 716.36						71.64				
		Labour cess @ 1% i.e. on Rs. 788						7.88				
								795.88	795.88		795.88	795.88
II		<b>LABOUR</b>										
		Taking output			5	Outlets						
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.373	196.83	73.42				
	(ii)	Mason			Each	3	223.36	670.08				
	(iii)	Mazdoors			Each	6	136.69	820.14				
	(iv)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						1700.33				
		Sundries @ 1% i.e. on Rs. 1700.33						17.00				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1717.33						369.23				
		Labour cess @ 1% i.e. on Rs. 2086.56						20.87				
		Labour for			5	Outlets		2107.42				
		Labour for			1	Outlet		421.48	421.48		421.48	421.48
		Cost for			1	Outlet			1217.36			1217.36

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
(c)		Extra over item No. 20.3(a) in case of old Outlets where dismantling and reconstructing of gullet walls is involved including change in width of gullet i.e. 'B' of the outlet upto 30 m.m.									
	(i)	With 'H' upto 0.5 m									
		Unit:-	Each								
I		<b>MATERIALS</b>									
		Same measurements in case of 20.3-B, excepting that greater length of u/s walls will be dismantled and rebuilt. The whole of gullet equal to H+0.30 M will have to be dismantled plus an additional length of 0.60 metre for joining curve on u/s side slope on d/s side. (i) D/S wall for taking out and accomodating A.P.M. blocks 1*0.60*0.23*0.60= 0.0828 cum (ii) To enable change in 'B' 1*1.33*0.23*0.60= 0.1863 cum 0.2691 cum say: 0.27 cum (iii) Cement masonry 1:5 (Rate as per item No. 11.5-(i))		cum	0.27	1920.54	518.55				
		TOTAL-I					518.55				
		Add for contractor's profit @ 10% i.e. on Rs. 518.55					51.85				
		Labour cess @ 1% i.e. on Rs. 570.4					5.70				
							576.10	<b>576.10</b>		576.10	<b>576.10</b>
II		<b>LABOUR</b>									
		Taking output 3		Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))		cum	0.27	196.83	53.14				
	(ii)	Mason		Each	1	223.36	223.36				
	(iii)	Mazdoors		Each	3	136.69	410.07				
		TOTAL-II					686.57				
		Sundries @ 1% i.e. on Rs. 686.57					6.87				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 693.44					149.09				
		Labour cess @ 1% i.e. on Rs. 842.53					8.43				
		Labour for 3	Outlets				<b>850.95</b>				
		Labour for 1	Outlet				283.65	<b>283.65</b>		283.65	<b>283.65</b>
		Cost for 1	Outlet					<b>859.76</b>			<b>859.76</b>



Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
	(ii)	With 'H' more than 0.5 m. but upto 0.9 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Average 'H'= 0.70 metre (ii) Length of D/S wall to be dismantled= 0.60 m (iii) Length of U/S wall to be dismantled= 0.70+0.30+0.60=1.60 m (iv) Cement Masonry 1:5 (Rate as per item No. 11.5-1) 1*1.60*0.23*0.60 =0.2208 1*0.60*0.345*0.30 =0.1242 1*0.60*0.23*0.60 =0.0828 1*0.60*0.345*0.30 =0.0621 0.5313 cum			cum	0.5313	1920.54	1020.38				
		TOTAL-I						1020.38				
		Add for contractor's profit @ 10% i.e. on Rs. 1020.38						102.04				
		Labour cess @ 1% i.e. on Rs. 1122.42						11.22				
								1133.65	1133.65		1133.65	1133.65
II		<b>LABOUR</b>										
			Taking output	4	Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.5313	196.83	104.58				
	(ii)	Mason			Each	3	223.36	670.08				
	(iii)	Mazdoors			Each	5	136.69	683.45				
	(iv)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						1594.80				
		Sundries @ 1% i.e. on Rs. 1594.8						15.95				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1610.74						346.31				
		Labour cess @ 1% i.e. on Rs. 1957.05						19.57				
			Labour for	4	Outlets			1976.62				
			Labour for	1	Outlet			494.16	494.16		494.16	494.16
			Cost for	1	Outlet				1627.80			1627.80

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		With 'H' more than 0.9 m but upto 1.10m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Average 'H'= 1.0 metre (ii) Length of D/S wall to be dismantled= 0.60 m (iii) Length of U/S wall to be dismantled= 0.30+1.0+0.60=1.90 m (iv) Cement Masonry 1:5 (Rate as per item No. 11.5-1) 1*1.90*0.23*0.60 =0.2622 1*1.90*0.345*0.50 =0.3278 1*0.60*0.23*0.60 =0.0828 1*0.60*0.345*0.50 =0.1035 0.7763 cum			cum	0.7763	1920.54	1490.92				
		TOTAL-I						1490.92				
		Add for contractor's profit @ 10% i.e. on Rs. 1490.92						149.09				
		Labour cess @ 1% i.e. on Rs. 1640.01						16.40				
								1656.41	1656.41	1656.41	1656.41	
II		<b>LABOUR</b>										
		Taking output 3			Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.7763	196.83	152.80				
	(ii)	Mason			Each	3	223.36	670.08				
	(iii)	Mazdoors			Each	6	136.69	820.14				
	(iv)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						1779.71				
		Sundries @ 1% i.e. on Rs. 1779.71						17.80				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1797.51						386.46				
		Labour cess @ 1% i.e. on Rs. 2183.97						21.84				
		Labour for 3			Outlets			2205.81				
		Labour for 1			Outlet			735.27	735.27	735.27	735.27	
		Cost for 1			Outlet			2391.68	2391.68			2391.68

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.4		<b>Adjusting A.P.M. to the correct 'Y' and fixing in position:-</b>										
(a)		In case of new outlet where no dismantling and reconstructing of gullet wall is involved.			Job			100.00	100.00		100.00	100.00
(b)		Extra over item No.20.4(a) In case of outlets where dismantling and reconstructing of gullet walls is involved without change in width of gullet i.e 'B' of the outlet			Job			Same as for item No. 20.3(b)	Same as for item No. 20.3(b)		Same as for item No. 20.3(b)	Same as for item No. 20.3(b)
(c )		Extra over item No. 20.4 In case of old outlets where dismantling and reconstructing of gullet walls is involved including change in width of gullet i.e. 'B' of the outlet upto 30 m.m.			Job			Same as for item No. 20.3(c)	Same as for item No. 20.3(c)		Same as for item No. 20.3(c)	Same as for item No. 20.3(c)

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.5		<b>Adjusting check plates of open flume outlet to correct 'B' and fixing at site flush with the gullet walls :-</b>										
(a)		In case of new outlets where no dismantling and reconstructing of gullet walls is involved.			Job			100.00	100.00		100.00	100.00
(b)		Extra over item No. 20.5(a) In case of old outlets where dismantling and reconstructing of gullet wall is involved without change in width of gullet Walls i.e. 'B' of the outlet			Job			Same as for item No. 20.3(b)	Same as for item No. 20.3(b)		Same as for item No. 20.3(b)	Same as for item No. 20.3(b)
(c)		Extra over item No. 20.5(a) In case of existing outlets where dismantling and reconstructing side walls is involved including change of 'B' upto 30 mm										
(i)		With 'H' upto 0.5 m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		(i) Average 'H'= 0.45 metre (ii) Height of gullet walls= 0.58 m say 0.60 metre (iii) Length of gullet: 2H (iv) Length of U/S wall to be dismantled= 2H+0.60= 1.5 m (v) Length of D/S wall to be dismantled= 0.30+0.30= 0.60 m (vi) Cement Masonry 1:5 (Rate as per item No. 11.5-1) 1*1.5*0.23*0.60 =0.207 1*0.60*0.228*0.60 =0.083 0.290 cum say: 0.29 cum			cum	0.29	1920.54	556.96				
		TOTAL-I						556.96				
		Add for contractor's profit @ 10% i.e. on Rs. 556.96						55.70				
		Labour cess @ 1% i.e. on Rs. 612.65						6.13				
								618.78	618.78		618.78	618.78

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
II		LABOUR										
		Taking output	7	Outlets								
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.29	196.83	57.08				
	(ii)	Mason			Each	3	223.36	670.08				
	(iii)	Mazdoors			Each	6	136.69	820.14				
	(iv)	Mazdoor Boy			Each	2	136.69	273.38				
		TOTAL-II						1820.68				
		Sundries @ 1% i.e. on Rs. 1820.68						18.21				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1838.89						395.36				
		Labour cess @ 1% i.e. on Rs. 2234.25						22.34				
		Labour for	7	Outlets				2256.59				
		Labour for	1	Outlet				322.37	322.37		322.37	322.37
		Cost for	1	Outlet					941.15			941.15

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		With 'H' more than 0.5 m but upto 0.9 m										
			Unit:-	Each								
<b>I</b>		<b>MATERIALS</b>										
		(i) Average 'H'= 0.7 metre (ii) Length of U/S wall= 2.10 m (iii) Length of D/S wall= 0.60 m (iv) Cement Masonry 1:5 (Rate as per item No. 11.5-1) 1*2.10*0.23*0.60 =0.290 1*2.10*0.345*0.30 =0.217 1*0.60*0.23*0.60 =0.083 1*0.60*0.345*0.30 = <u>0.062</u> 0.652 cum say: 0.65 cum			cum	0.65	1920.54	1248.35				
		TOTAL-I						1248.35				
		Add for contractor's profit @ 10% i.e. on Rs. 1248.35						124.84				
		Labour cess @ 1% i.e. on Rs. 1373.19						13.73				
								1386.92	<b>1386.92</b>		1386.92	<b>1386.92</b>
<b>II</b>		<b>LABOUR</b>										
		Taking output			2	Outlets						
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.65	196.83	127.94				
	(ii)	Mason			Each	2	223.36	446.72				
	(iii)	Mazdoors			Each	2	136.69	273.38				
	(iv)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						984.73				
		Sundries @ 1% i.e. on Rs. 984.73						9.85				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 994.58						213.83				
		Labour cess @ 1% i.e. on Rs. 1208.41						12.08				
		Labour for			2	Outlets		<b>1220.49</b>				
		Labour for			1	Outlet		610.25	<b>610.25</b>		610.25	<b>610.25</b>
		Cost for			1	Outlet			<b>1997.17</b>			<b>1997.17</b>

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		With 'H' more than 0.9 m but upto 1.10m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Average 'H'= 1.0 metre (ii) Length of U/S wall= 2.5 m (iii) Length of D/S wall= 0.60 m (iv) Cement Masonry 1:5 (Rate as per item No. 11.5-1) 1*2.5*0.23*0.60 =0.345 1*2.50*0.345*0.50 =0.431 1*0.60*0.345*0.50 =0.104 1*0.60*0.23*0.60 = <u>0.083</u> 0.963 cum			cum	0.963	1920.54	1849.48				
		TOTAL-I						1849.48				
		Add for contractor's profit @ 10% i.e. on Rs. 1849.48						184.95				
		Labour cess @ 1% i.e. on Rs. 2034.43						20.34				
								2054.77	<b>2054.77</b>		2054.77	<b>2054.77</b>
II		<b>LABOUR</b>										
		Taking output 4			Outlets							
	(i)	Dismantling cement masonry (Rate as per item No. 8.5(b))			cum	0.963	196.83	189.55				
	(ii)	Mason			Each	5	223.36	1116.80				
	(iii)	Mazdoors			Each	10	136.69	1366.90				
	(iv)	Mazdoor Boy			Each	1	136.69	136.69				
		TOTAL-II						2809.94				
		Sundries @ 1% i.e. on Rs. 2809.94						28.10				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 2838.04						610.18				
		Labour cess @ 1% i.e. on Rs. 3448.21						34.48				
		Labour for 4			Outlets			<b>3482.70</b>				
		Labour for 1			Outlet			870.67	<b>870.67</b>		870.67	<b>870.67</b>
		Cost for 1			Outlet				<b>2925.45</b>			<b>2925.45</b>

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.6		Extra over item Nos. 20.3, 20.4 And 20.5 as the case may be, for adjusting of crest levels of O.F and A.P.M. outlets with 1:2:4 cement concrete when lowering of crest level is involved.										
(a)		With 'H' upto 0.5 m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
	(i)	Cement			Bag of 50 kg.	0.10	262.27	26.23				
	(ii)	Shingle			cum	0.0142	448.28	6.37				
		TOTAL-I						32.59				
		Add for contractor's profit @ 10% i.e. on Rs. 32.59						3.26				
		Labour cess @ 1% i.e. on Rs. 35.85						35.85				
								71.70	71.70		71.70	71.70
II		<b>LABOUR</b>										
		Taking output 3			Outlets							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
		Labour for 3			Outlets			446.25				
		Labour for 1			Outlet			148.75	148.75		148.75	148.75
		Cost for 1			Outlet				220.45			220.45



Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		With 'H' more than 0.5 m but upto 0.9 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
	(i)	Cement			Bag of 50 kg.	0.150	262.27	39.34				
	(ii)	Shingle			cum	0.0210	448.28	9.41				
		TOTAL-I						48.75				
		Add for contractor's profit @ 10% i.e. on Rs. 48.75						4.88				
		Labour cess @ 1% i.e. on Rs. 53.63						0.54				
								54.17	54.17	54.17	54.17	54.17
II		<b>LABOUR</b>										
		Taking output 2			Outlets							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
		Labour for 2			Outlets			446.25				
		Labour for 1			Outlet			223.13	223.13	223.13	223.13	223.13
		Cost for 1			Outlet			277.29				277.29

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(c)		With 'H' more than 0.9 m but upto 1.10 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
	(i)	Cement			Bag of 50 kg.	0.20	262.27	52.45				
	(ii)	Shingle			cum	0.0280	448.28	12.55				
		TOTAL-I						65.01				
		Add for contractor's profit @ 10% i.e. on Rs. 65.01						6.50				
		Labour cess @ 1% i.e. on Rs. 71.51						0.72				
								72.22	72.22		72.22	72.22
II		<b>LABOUR</b>										
		Taking output 3			Outlets							
	(i)	Mason			Each	2	223.36	446.72				
	(ii)	Mazdoors			Each	2	136.69	273.38				
		TOTAL-II						720.10				
		Sundries @ 1% i.e. on Rs. 720.1						7.20				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 727.3						156.37				
		Labour cess @ 1% i.e. on Rs. 883.67						8.84				
		Labour for 3			Outlets			892.51				
		Labour for 1			Outlet			297.50	297.50		297.50	297.50
		Cost for 1			Outlet				369.72			369.72

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
20.7		Extra over item Nos. 20.3, 20.4 And 20.5 as the case may be, for Adjusting of crest levels of O.F and A.P.M. outlets with 1:2:4 cement concrete when raising of crest level is involved									
(a)		With 'H' upto 0.5 m									
		Unit:-		Each							
I		<b>MATERIALS</b>									
		Same as per item no. 20.6-a(i)					71.70	71.70		71.70	71.70
II		<b>LABOUR</b>									
		Taking output		4	Outlets						
	(i)	Mason		Each	1	223.36	223.36				
	(ii)	Mazdoors		Each	1	136.69	136.69				
		TOTAL-II					360.05				
		Sundries @ 1% i.e. on Rs. 360.05					3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65					78.18				
		Labour cess @ 1% i.e. on Rs. 441.84					4.42				
		Labour for		4	Outlets		446.25				
		Labour for		1	Outlet		111.56	111.56		111.56	111.56
		Cost for		1	Outlet			183.27			183.27

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		With 'H' more than 0.5 m but upto 0.9 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		Same as per item no. 20.6-b(i)						54.17	54.17		54.17	54.17
II		<b>LABOUR</b>										
		Taking output 3			Outlets							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
		Labour for 3			Outlets			446.25				
		Labour for 1			Outlet			148.75	148.75		148.75	148.75
		Cost for 1			Outlet				202.92			202.92

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(c)		With 'H' more than 0.9 m but upto 1.10 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		Same as per item no. 20.6-c(i)						72.22	72.22		72.22	72.22
II		<b>LABOUR</b>										
			Taking output	2	Outlets							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
			Labour for	2	Outlets			446.25				
			Labour for	1	Outlet			223.13	223.13		223.13	223.13
			Cost for	1	Outlet				295.35			295.35

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
20.8		<b>Constructing, watching and removing bund in running water for outlets:-</b>								
(a)		For adjusting 'B"Y' or crest Level of the O.F. and A.P.M. types for plains and for dismantling or constructing pipe or barrel type outlets for sub mountainous region:-								
(i)		For channels with designed F.S. depth upto 0.5m.								
		Unit:-	Each							
I		<b>MATERIALS</b>								
		(i) Average= 0.45 metre	Nos.	40	2.40	96.00				
		(ii) Minimum length of bund $2H+B+0.75= 1.80$ metres ( where 'H' is depression of crest level below F.S.L.)								
		(iii) Height of bund= 0.75 m								
		(iv) No. of bags:								
		1*2*8= 16								
		1*3*8= 24								
		40 Nos.								
		TOTAL-I				96.00				
		Add for contractor's profit @ 10% i.e. on Rs. 96				9.60				
		Labour cess @ 1% i.e. on Rs. 105.6				1.06				
						106.66	106.66		106.66	106.66
II		<b>LABOUR</b>								
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) $1*1.80*0.45*0.75= 0.61$ cum say: 0.60 cum	cum	0.6	31.77	19.06				
	(ii)	Mazdoor for filling 40 Nos. empty cement bags with earth and placing in running water.	Each	1	136.69	136.69				
	(iii)	Mazdoor for taking out earth from bags ( $0.60+1.40= 2.0$ cum	Each	0.5	136.69	68.35				
	(iv)	Mazdoor for watching for one night.	Each	1	136.69	136.69				
		TOTAL-II				360.79				
		Sundries @ 1% i.e. on Rs. 360.79				3.61				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 364.39				78.34				
		Labour cess @ 1% i.e. on Rs. 442.74				4.43				
		Labour for 1 Bund				447.17	447.17			
		Cost for 1 Bund					553.82			
		Add for sub-mountainous @ 10% i.e. on Rs. 447.17							44.72	
		Labour for 1 Bund								491.88
		Cost for 1 Bund								598.54

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		for channels with designed F.S. depth above 0.5 m but upto 0.9m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		(i) Average depth= 0.70 metre			Nos.	77	2.40	184.80				
		(ii) Minimum length of bund $2H+B+0.75= 1.40+0.15+0.75= 2.3$ metres but keep 2.70 metres( i.e. 3 bags length for the inner row) and 4 bags length for the outer row										
		(iii) Height of bund= 1.05 m										
		(iv) No. of bags:										
		1*3*11= 33										
		1*4*11= 44										
		77 Nos.										
		TOTAL-I						184.80				
		Add for contractor's profit @ 10% i.e. on Rs. 184.8						18.48				
		Labour cess @ 1% i.e. on Rs. 203.28						2.03				
								205.31	205.31	205.31	205.31	
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) $1*2.70*0.75*1.05= 2.13$ cum say: 2.15 cum			cum	2.15	31.77	68.31				
	(ii)	Mazdoor for filling 77 Nos. empty cement bags with earth and placing in running water.			Each	2	136.69	273.38				
	(iii)	Mazdoor for taking out earth from bags ( $2.13+2.67$ )= 4.80 cum say: 5.0 cum			Each	1.00	136.69	136.69				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						615.07				
		Sundries @ 1% i.e. on Rs. 615.07						6.15				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 621.22						133.56				
		Labour cess @ 1% i.e. on Rs. 754.78						7.55				
		Labour for 1	Bund					762.33	762.33			
		Cost for 1	Bund						967.64			
		Add for sub-mountainous @ 10% i.e. on Rs. 762.33								76.23		
		Labour for 1	Bund									838.56
		Cost for 1	Bund									1043.87

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		for channels with designed F.S. depth above 0.90 but upto 1.0 m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		(i) Average depth= 1.0 metre			Nos.	126	2.40	302.40				
		(ii) Length of bund $2H+B+0.75=2.0+0.15+0.75=2.90$ metres ( i.e. 4 bags length for the inner row and 5 bags length in the outer row.										
		(iii) Height of bund= 1.45 m										
		(iv) No. of bags:										
		1*4*14= 56										
		1*5*14= 70										
		126 Nos.										
		TOTAL-I						302.40				
		Add for contractor's profit @ 10% i.e. on Rs. 302.4						30.24				
		Labour cess @ 1% i.e. on Rs. 332.64						3.33				
								335.97	335.97		335.97	335.97
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) $1*3.30*1.00*1.45=4.79$ cum sav: 5.0 cum			cum	5	31.77	158.85				
	(ii)	Mazdoor for filling 126 Nos. empty cement bags with earth and placing in running water.			Each	4	136.69	546.76				
	(iii)	Mazdoor for taking out earth from bags ( $4.79+4.37=9.16$ cum			Each	2.00	136.69	273.38				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						1115.68				
		Sundries @ 1% i.e. on Rs. 1115.68						11.16				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1126.84						242.27				
		Labour cess @ 1% i.e. on Rs. 1369.11						13.69				
			Labour for 1	Bund				1382.80	1382.80			
			Cost for 1	Bund					1718.76			
		Add for sub-mountainous @ 10% i.e. on Rs. 1382.8									138.28	
			Labour for 1	Bund								1521.08
			Cost for 1	Bund								1857.04



Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(b)		For constructing complete O.F Or A.P.M. type outlets in running water:-								
(i)		For channels with designed F.S. depth upto 0.5m.								
		Unit:-	Each							
I		<b>MATERIALS</b>								
		(i) Length of bund = 4.50 metres.	Nos.	96	2.40	230.40				
		(ii) Height of bund = 0.90 metres								
		(iii) No. of bags = 2*6*8= 96 Nos.								
		TOTAL-I				230.40				
		Add for contractor's profit @ 10% i.e. on Rs. 230.4				23.04				
		Labour cess @ 1% i.e. on Rs. 253.44				2.53				
						255.97	255.97		255.97	255.97
II		<b>LABOUR</b>								
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) 1*4.50*0.45*0.75= 1.52 cum	cum	1.52	31.77	48.29				
	(ii)	Mazdoor for filling 96 Nos. empty cement bags with earth and placing in running water.	Each	3	136.69	410.07				
	(iii)	Mazdoor for taking out earth from bags ( 1.52+3.33)= 4.85 cum	Each	1.5	136.69	205.04				
	(iv)	Mazdoor for watching for one night.	Each	1	136.69	136.69				
		TOTAL-II				800.09				
		Sundries @ 1% i.e. on Rs. 800.09				8.00				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 808.09				173.74				
		Labour cess @ 1% i.e. on Rs. 981.82				9.82				
		Labour for 1 Bund				991.64	991.64		991.64	991.64
		Cost for 1 Bund					1247.62			1247.62

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		for channels with designed F.S. depth above 0.5 m But upto 0.9m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		(i) Length of bund = 4.80 metres.			Nos.	132	2.40	316.80				
		(ii) Height of bund = 1.05 metres										
		(iii) No. of bags = 2*6*11= 132 Nos.										
		TOTAL-I						316.80				
		Add for contractor's profit @ 10% i.e. on Rs. 316.8						31.68				
		Labour cess @ 1% i.e. on Rs. 348.48						3.48				
								351.96	351.96	351.96	351.96	351.96
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) 1*4.80*0.75*1.05= 3.78 cum say: 4.0 cum			cum	4.0	31.77	127.08				
	(ii)	Mazdoor for filling 132 Nos. empty cement bags with earth and placing in running water.			Each	4	136.69	546.76				
	(iii)	Mazdoor for taking out earth from bags ( 3.78+4.58)= 8.36 cum			Each	2.00	136.69	273.38				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						1083.91				
		Sundries @ 1% i.e. on Rs. 1083.91						10.84				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1094.75						235.37				
		Labour cess @ 1% i.e. on Rs. 1330.12						13.30				
		Labour for 1 Bund						1343.42	1343.42	1343.42	1343.42	1343.42
		Cost for 1 Bund							1695.39			1695.39

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		for channels with designed F.S. depth above 0.90 but upto 1.1 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Length of bund = 6.0 metres.			Nos.	224	2.40	537.60				
		(ii) Height of bund = 1.50 metres										
		(iii) No. of bags = 2*8*14= 224 Nos.										
		TOTAL-I						537.60				
		Add for contractor's profit @ 10% i.e. on Rs. 537.6						53.76				
		Labour cess @ 1% i.e. on Rs. 591.36						5.91				
								597.27	597.27	597.27	597.27	
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) 1*6.0*0.75*1.50= 6.75 cum			cum	6.75	31.77	214.45				
	(ii)	Mazdoor for filling 224 Nos. empty cement bags with earth and placing in running water.			Each	7	136.69	956.83				
	(iii)	Mazdoor for taking out earth from bags ( 6.75+7.78)= 14.53 cum say: 14.50cum			Each	3.50	136.69	478.42				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						1786.38				
		Sundries @ 1% i.e. on Rs. 1786.38						17.86				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 1804.25						387.91				
		Labour cess @ 1% i.e. on Rs. 2192.16						21.92				
			Labour for 1	Bund				2214.08	2214.08	2214.08	2214.08	
			Cost for 1	Bund				2811.35	2811.35	2811.35	2811.35	
(c )		For dismantling or constructing pipe channels.										
(i)		For channels with designed F.S. depth upto 0.5m.										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Length of inner rows of bags= 1.50 metres			Nos.	40	2.40	96.00				
		(ii) Length of outer rows of bags= 2.25 metres										
		(iii) Mean length = 1.87 metres										
		Hence rate will be same as per item No. 20.8-a(i) I										
		TOTAL-I						96.00				
		Add for contractor's profit @ 10% i.e. on Rs. 96						9.60				
		Labour cess @ 1% i.e. on Rs. 105.6						1.06				
								106.66	106.66	106.66	106.66	
II		<b>LABOUR</b>										
		Same as per item No. 20.8-a(i) II						447.17	447.17	447.17	447.17	
			Cost for 1	Bund				553.82	553.82	553.82	553.82	

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(ii)		for channels with designed F.S. depth above 0.5 m but upto 0.9 m										
		Unit:-			Each							
I		<b>MATERIALS</b>										
		(i) Length of bund = 1.80 metres.			Nos.	55	2.40	132.00				
		(ii) Height of bund = 0.75 metres										
		(iii) No. of bags:										
		1*2*11= 22										
		1*3*11= 33										
		55 Nos										
		TOTAL-I						132.00				
		Add for contractor's profit @ 10% i.e. on Rs. 132						13.20				
		Labour cess @ 1% i.e. on Rs. 145.2						1.45				
								146.65	146.65		146.65	146.65
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) 1*1.80*0.75*1.05= 1.42 cum say: 1.50 cum			cum	1.42	31.77	45.11				
	(ii)	Mazdoor for filling 55 Nos. empty cement bags with earth and placing in running water.			Each	1	136.69	136.69				
	(iii)	Mazdoor for taking out earth from bags ( 1.42+1.91)= 3.33 cum			Each	0.50	136.69	68.35				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						386.84				
		Sundries @ 1% i.e. on Rs. 386.84						3.87				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 390.71						84.00				
		Labour cess @ 1% i.e. on Rs. 474.71						4.75				
		Labour for 1			Bund			479.46	479.46		479.46	479.46
		Cost for 1			Bund			626.11	626.11			626.11

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(iii)		for channels with designed F.S. depth above 0.90 but upto 1.1 m										
			Unit:-	Each								
I		<b>MATERIALS</b>										
		(i) Width of berm to be opened= 1.65 metres.			Nos.	70	2.40	168.00				
		(ii) Mean length of bund = 1.80 metres										
		(iii) No. of bags:										
		1*2*14= 28										
		1*3*14= 42										
		70 Nos										
		TOTAL-I						168.00				
		Add for contractor's profit @ 10% i.e. on Rs. 168						16.80				
		Labour cess @ 1% i.e. on Rs. 184.8						1.85				
								186.65	186.65		186.65	186.65
II		<b>LABOUR</b>										
	(i)	Good puddled earth between two rows of bags (Rate as per item No. 6.2-b) 1*1.80*1.05*1.35= 2.55 cum			cum	2.55	31.77	81.01				
	(ii)	Mazdoor for filling 70 Nos. empty cement bags with earth and placing in running water.			Each	2	136.69	273.38				
	(iii)	Mazdoor for taking out earth from bags ( 2.55+2.43)= 4.98 cum sav: 5.0 cum			Each	1.00	136.69	136.69				
	(iv)	Mazdoor for watching for one night.			Each	1	136.69	136.69				
		TOTAL-II						627.77				
		Sundries @ 1% i.e. on Rs. 627.77						6.28				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 634.05						136.32				
		Labour cess @ 1% i.e. on Rs. 770.37						7.70				
			Labour for 1	Bund				778.08	778.08		778.08	778.08
			Cost for 1	Bund				964.72	964.72			964.72

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
20.9		Adjusting 'B' of tail cluster by dismantling and rebuilding throat walls									
			Unit:-	Each							
I		<b>MATERIALS</b>									
		Cement masonry 1:3 (Rate as per item No. 11.9-I)		cum	0.11	2169.70	238.67				
		2*1.50*12*0.3= 0.108 say: 0.11 cum									
		TOTAL-I					238.67				
		Add for contractor's profit @ 10% i.e. on Rs. 238.67					23.87				
		Labour cess @ 1% i.e. on Rs. 262.53					2.63				
							265.16	265.16	265.16	265.16	265.16
II		<b>LABOUR</b>									
			Taking output	4	Outlets						
(a)		For rebuilding:									
	(i)	Mason		Each	1	223.36	223.36				
	(ii)	Mazdoors		Each	1	136.69	136.69				
		TOTAL-II					360.05				
		Sundries @ 1% i.e. on Rs. 360.05					3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65					78.18				
		Labour cess @ 1% i.e. on Rs. 441.84					4.42				
			Labour for	4	Outlets		446.25				
			Labour for	1	Outlet		111.56	111.56	111.56	111.56	111.56
(b)		Dismantling				L.S.	100.00				
			Total labour for	1	Outlet		211.56	211.56	211.56	211.56	211.56
			Cost for	1	Outlet		476.72	476.72	476.72	476.72	476.72

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.10		Extra labour for dressing bricks On O.F. and A.P.M. type outlets										
(i)		With 'H' upto 0.5 m			per outlet			480.00	480.00		480.00	480.00
(ii)		With 'H' more than 0.5 m. but upto 0.9 m			per outlet			960.00	960.00		960.00	960.00
(iii)		With 'H' more than 0.9 m but upto 1.10m			per outlet			1520.00	1520.00		1520.00	1520.00

Sr. No.	Code No.	Description		Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3		4	5	6	7	8	9	10	11
20.11		Repairing damaged reducing collar of hume pipe outlets									
		Unit:-	Each								
I		<b>MATERIALS</b>									
		Cement		Baq of 50 kgs.	0.10	262.27	26.23				
		TOTAL-I					26.23				
		Add for contractor's profit @ 10% i.e. on Rs. 26.23					2.62				
		Labour cess @ 1% i.e. on Rs. 28.85					0.29				
							29.14	29.14		29.14	29.14
II		<b>LABOUR</b>									
		Taking output	3	Outlets							
	(i)	Mason		Each	1	223.36	223.36				
	(ii)	Mazdoors		Each	1	136.69	136.69				
		TOTAL-II					360.05				
		Sundries @ 1% i.e. on Rs. 360.05					3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65					78.18				
		Labour cess @ 1% i.e. on Rs. 441.84					4.42				
		Labour for 3	Outlets				446.25				
		Labour for 1	Outlet				148.75	148.75			
		Cost for 1	Outlet					177.89			
		Add for sub-mountainous @ 10% i.e. on Rs. 148.75								14.88	
		Labour for 1	Outlet								163.63
		Cost for 1	Outlet								192.76



Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
20.12		Laying iron pipes for outlets upto 150 m.m. diameter	Metre				30.00			
		Add for sub-mountainous @ 10% i.e. on Rs. 30							3.00	
										33.00

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.13		Laying R.C.C. pipes for outlets and culverts including joining ends and fixing collar with cement mortar 1:2 :-										
(a)		upto 150 mm inside diameter										
			Unit:-	Metre								
I		MATERIALS( for one collar)										
	(i)	Cement			Bag of 50 kgs.	0.040	262.27	10.49				
	(ii)	Sand			cum	0.003	200.59	0.60				
		TOTAL-I						11.09				
		Add for contractor's profit @ 10% i.e. on Rs. 11.09						1.11				
		Labour cess @ 1% i.e. on Rs. 12.2						0.12				
								12.32	12.32		12.32	12.32
II		LABOUR										
			Taking output	12	Collars							
	(i)	Mason			Each	1/2	223.36	111.68				
	(ii)	Mazdoors			Each	2	136.69	273.38				
		TOTAL-II						385.06				
		Sundries @ 1% i.e. on Rs. 385.06						3.85				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 388.91						83.62				
		Labour cess @ 1% i.e. on Rs. 472.53						4.73				
			Labour for	12	Collars			477.25				
			Labour for	1	Collar			39.77	39.77			
			Labour for	1	Metre				22.09			
			Cost for	1	Collar				52.09			
			Cost for	1	Metre				28.94			
		Add for sub-mountainous @ 10% i.e. on Rs. 39.77								3.98		
			Labour for	1	Collar							43.75
			Labour for	1	Metre							24.30
			Cost for	1	Collar							56.07
			Cost for	1	Metre							31.15

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(b)		above 150 mm but upto 300 mm inside diameter										
			Unit:-	Metre								
I		<b>MATERIALS( for one collar)</b>										
	(i)	Cement			Bag of 50 kgs.	0.080	262.27	20.98				
	(ii)	Sand			cum	0.006	200.59	1.20				
		TOTAL-I						22.19				
		Add for contractor's profit @ 10% i.e. on Rs. 22.19						2.22				
		Labour cess @ 1% i.e. on Rs. 24.4						0.24				
								24.65	24.65		24.65	24.65
II		<b>LABOUR</b>										
		Taking output 5			Collars							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
		Labour for 5			Collars			446.25				
		Labour for 1			Collar			89.25	89.25			
		Cost for 1			Collar				113.90			
		Labour for 1			Metre				49.58			
		Cost for 1			Metre				63.28			
		Add for sub-mountainous @ 10% i.e. on Rs. 89.25								8.93		
		Labour for 1			Collar							98.18
		Cost for 1			Collar							122.82
		Labour for 1			Metre							54.54
		Cost for 1			Metre							68.24

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(c)		above 300 mm but upto 600 mm inside diameter										
			Unit:-	Metre								
I		<b>MATERIALS( for one collar)</b>										
	(i)	Cement			Bag of 50 kgs.	0.23	262.27	60.32				
	(ii)	Sand			cum	0.016	200.59	3.21				
		TOTAL-I						63.53				
		Add for contractor's profit @ 10% i.e. on Rs. 63.53						6.35				
		Labour cess @ 1% i.e. on Rs. 69.88						0.70				
								70.58	70.58		70.58	70.58
II		<b>LABOUR</b>										
			Taking output	2	Collars							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
			Labour for	2	Collars			446.25				
			Labour for	1	Collar			223.13	223.13			
			Cost for	1	Collar				293.71			
			Labour for	1	Metre				123.96			
			Cost for	1	Metre				163.17			
		Add for sub-mountainous @ 10% i.e. on Rs. 223.13									22.31	
			Labour for	1	Collar							245.44
			Cost for	1	Collar							316.02
			Labour for	1	Metre							136.36
			Cost for	1	Metre							175.57

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
(d)		above 600mm but upto 900 mm inside diameter										
			Unit:-	Metre								
I		<b>MATERIALS( for one collar)</b>										
	(i)	Cement			Bag of 50 kgs.	0.38	262.27	99.66				
	(ii)	Sand			cum	0.027	200.59	5.42				
		TOTAL-I						105.08				
		Add for contractor's profit @ 10% i.e. on Rs. 105.08						10.51				
		Labour cess @ 1% i.e. on Rs. 115.59						1.16				
								116.74	<b>116.74</b>		116.74	<b>116.74</b>
II		<b>LABOUR</b>										
		Taking output 1			Collar							
	(i)	Mason			Each	1	223.36	223.36				
	(ii)	Mazdoors			Each	1	136.69	136.69				
		TOTAL-II						360.05				
		Sundries @ 1% i.e. on Rs. 360.05						3.60				
		Add for contractor's profit and overhead charges @ 21.5% i.e. on Rs. 363.65						78.18				
		Labour cess @ 1% i.e. on Rs. 441.84						4.42				
		Labour for 1			Collar			446.25	<b>446.25</b>			
		Cost for 1			Collar				<b>563.00</b>			
		Labour for 1			Metre				<b>247.92</b>			
		Cost for 1			Metre				<b>312.78</b>			
		Add for sub-mountainous @ 10% i.e. on Rs. 446.25									44.63	
		Labour for 1			Collar							<b>490.88</b>
		Cost for 1			Collar							<b>607.62</b>
		Labour for 1			Metre							<b>272.71</b>
		Cost for 1			Metre							<b>337.57</b>

Sr. No.	Code No.	Description			Unit	Quantity	Plain			For Sub-Mountainous Region		
							Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3			4	5	6	7	8	9	10	11
20.14		Hoisting and placing precast R.C. concrete slab or stones in position on outlets or W.C. culverts							160.00			
		Add for sub-mountainous @ 10% i.e. on Rs. 160									16.00	
												176.00

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
20.15		Providing APM cast iron block complete in all respects including supply of pig iron, casting and pattern making, as per ISI specifications no. 7986-1976								
		<u>Standard Bt of module</u>		<u>Min. weight of module in kg</u>	<u>Rate per kg</u>	<u>Cost</u>				
	(i)	0.20 ft = 6.1 cm		65	45.00	2925.00				
	(ii)	0.25 ft= 7.6 cm		68	45.00	3060.00				
	(iii)	0.32 ft= 9.9 cm		72	45.00	3240.00				
	(iv)	0.40 ft= 12.2 cm		76	45.00	3420.00				
	(v)	0.5 ft= 15.2 cm		80	45.00	3600.00				
	(vi)	0.8 ft= 24.4 cm		84	45.00	3780.00				
	(vii)	1.0 ft= 30.5 cm		90	45.00	4050.00				
		Above rates are based on actual market rate of Rs. 45/- Kg of cast iron, inclusive of pattern making, casting and finishing (complete in all respects).								
		Size of Bt is standard as per ISI code 7986 – 1976 para 6.3.2.								
		Minimum Weight of module can vary by 2%.								

Er. P.S.Bhogal,  
Chairman cum Superintending Engineer,  
B.M.L Circle,  
Patiala.

Er. D.K.Nijhawan,  
Director,  
Central Design Organisation,  
Chandigarh.

Er. A.S.Dulat,  
Nodal Officer cum Chief Engineer,  
Irrigation deptt. Punjab, Chandigarh.