

## Retaining wall in dipressed built up area

Total length of the retaining wall = 50m

height of the retaining wall = 3.0 m

### Detailed Estimate of Civil Work of Retaining wall

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
1	13.1 Vol III	<b>Excavation for Retaining walls</b>								
		Earth work in excavation for Structures as Per Drawing ..... etc. and as per relevant clauses of section 305.1 Including Setting out Shoring & bracing Removal of stumps and other Ordinary Soil								
		Excavation of soil	1	50.00	2.330	1.200	139.80	136.00	cum	19013
2	14.9 Vol III	<b>Filling of Granular Material</b>								
		Providing Back filling behind abutment, wing wall & return wall with Granular Material complete as per drawing and Technical specification and as per relevant clauses 305 of specifications & as per appendix 6 of IRC-78								
		Filling of Granular Material	1	50.00	2.330	0.100	11.65	529.00	cum	6163
3	13.25 Vol III	<b>M15 Base for Retaining wall</b>								
		Providing and laying Leveling course in PCC M-15 (with 40 mm maximum size of aggregate) below Pile cap as per drawing and as per section 1100 and 1700.								
			1	50.00	2.130	0.100	10.65	3245.00	cum	34559
4	14.5 Vol III	<b>M20 Footing and Stem for Retaining wall</b>								
		Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in sub-structure or complete RCC Box section as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2200 in (Height above average ground level)								
		E) RCC Grade M20 with 20 mm down graded wall	1	50.00	0.200	2.700	27.00			
		Wall	1	50.00	0.030	2.700	2.03			
		base	1	50.00	1.930	0.300	8.25			
							37.28	4336.00	cum	161624
5	13.27 Vol III	<b>Item Reinforcement for Retaining Wall</b>								
		Supplying, fitting and placing un-coated Mild steel reinforcement complete in foundation as per drawing and technical specification and as per relevant clauses of sections 1600.								
		At base								
		Base bottom 12 mm dia @190 c/c	264	1.95	0.888		456.67			
		Distribution 8mm dia @190c/c	264	50.00	0.395		5214.00			
		Base at top 12 mm dia @600 c/c	84	1.95	0.888		145.31			
		Distribution 8mm dia @190c/c	264	50.00	0.395		5214.00			
		At earth side face wall								
		Vertical bar 12 mm dai @200c/c at earth	250	0.70	0.888		155.40			
			125	1.00	0.888		111.00			
			63	1.10	0.888		61.54			
		Distribution 8 mm dia bar @190c/c	18	50.00	0.395		355.50			
		at outer face wall								
		Vertical 8mm dia @300c/c	167	3.34	0.395		220.46			
		Distribution 8 mm dia bar @190c/c	12.00	50.0	0.395		237.00			
							12.17	57161.00	kg	695699

