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

	UADD	Descriptions of Item	Measurement							
S.No.	SOR Vol II & III, ITEM NO		No.	L	В	Н	Quantity	Rate	Unit	Amount
	40.4	Everytien for Destriction wells								
1	13.1 Vol III	Excavation for Rertaining walls								
		Earth work in excavation for Stuctures as Per Drawing etc. and as per relevant clauses of section 305.1Including 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	Filling of Granular Material 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	M15 Base for Rertaining wall								
		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	M20 Footing and Stem for Rertaining wall								
		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
							0.1.00			
5	13.27 Vol III	Item Reinforcement for Retaining Wall								
		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 Base at top 12 mm dia @600 c/c	264 84	50.00 1.95	0.395 0.888		5214.00 145.31			
		Distribution 8mm dia @190c/c	264	50.00	0.395		5214.00			
		At earth side face wall	050	0.70	0.000		455 10			
		Vertical bar 12 mm dai @200c/c at earth	250 125	0.70 1.00	0.888 0.888		155.40 111.00			
			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 Virtical8mm dia @300c/c	167	2.24	0.205		220.40			
			167	3.34	0.395		220.46			
		Distribution 8 mm dia bar @190c/c	12.00	50.0	() 395		237 00		I	
		Distribution 8 mm dia bar @190c/c	12.00	50.0	0.395		237.00 12.17	57161.00	kg	695699

6	3.10 Vol III	Back fill								
		Back filling behind the facing element in reinforced earth walls with approved material/selected soil having CBR >12 (Unless specified otherwise in the contract) obtained from excavation of borrow pits i/c all lifts & leads i/c grading to required slope & camber using mortar grader and compacting using vibratory roller of 80 to 100 kN static weight to meet compection requirement of Table No. 300.2 of MORTH specification.								
		DEDUCTIONAL	1	50.00	2.330	1.200	139.80			
		DEDUCTION,M10,M20 M10					-10.65			
		MIO					-6.99 -4.95			
		,					117.21	234.00		27427
							117.21	234.00		21721
7	14.8 Vol	PVC Pipe/Weep holes								
		Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical specifications and as per clause 2706 of specifications.								
		weep holes	1.00				50.00	131.00	RMT	6550
		Total in Rs.								951036