

FOR PROVIDING LAYING & JOINTING OF HDPE PIPES AND C/O MANHOLES AND CC PAVEMENT

JOB No. 3

ESTIMATED COST: Rs. 9,45000/ EARNEST MONEY : Rs. 19000/

S. No.	Code ref.	Description of item	Quantity	Unit	Rate in Rs.	Rate in words	Amount
1	CPWD /Item 2.8.1	Earth work in excavation by mechanical / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within all lead. 2.8.1 All kinds of soil.	52.5	cum			
2	DJB/2.13.1.1	Providing and laying in standard lengths(6 metre) High Density Polyethylene (H.D.P.E) Pipes, confirming to IS 4984:1995 and IS 7328:1992 (amended up to date), including all local & central taxes, transportation and freight charges inspection charges, loading / unloading charges, conveyance to the site of work & stacking the same in closed shade duly protecting from sunrays, rain & theft or physical damage, etc. complete. 110 mm nominal outer diameter (OD) HDPE pipe of material grade PE 80 / PN 6	250	m			
3	DJB/2.13.2.1	Laying and jointing HDPE pipe in proper position by coupler sockets /butt fusion jointing procedure including hydraulic testing as per relevant IS Code complete with all materials for jointing procedures like butt fusion welding machine with hydraulic jack, top loading clamp etc. pump and accessories for hydraulic testing and all labours as directed by engineer in charge as confirming to IS - 7634:(Part II):2012 (amended up to date). 110 mm nominal outer diameter (OD) HDPE pipe of material grade PE 80 / PN 6					
		(a) Lowering and laying of HDPE Pipes at slope of 0.7% including testing but excluding the cost of jointing.	250	m			
		(b) Providing coupler sockets /butt fusion welding joints to HDPE Pipe as confirm to DVS 2207 part-II.	30	Nos.			

4	DJB/2.13.1.4	Providing and supplying in standard lengths (6 metre) High Density Polyethylene (H.D.P.E) Pipes, confirming to IS 4984:1995 and IS 7328:1992 (amended up to date), including all local & central taxes, transportation and freight charges inspection charges, loading / unloading charges, conveyance to the site of work & stacking the same in closed shade duly protecting from sunrays, rains & theft or physical damage, etc. complete. 160 mm nominal outer diameter (OD) HDPE pipe of material grade PE 80 / PN 6	120	m			
5	DJB/2.13.2.4	Laying and jointing HDPE pipe in proper position by coupler sockets/butt fusion jointing procedure including hydraulic testing as per relevant IS Code complete with all materials for jointing procedures like butt fusion welding machine with hydraulic jack, top loading clamp etc. pump and accessories for hydraulic testing and all labours as directed by engineer in charge as confirming to IS - 7634:(Part II):2012 (amended up to date). 160 mm nominal outer diameter (OD)/ inner dia. HDPE pipe of material grade PE 80 / PN 6					
		(a) Lowering and laying of HDPE Pipes @ slope of 0.6 % including testing but excluding the cost of jointing.	120	m			
		(b) Providing coupler sockets /butt fusion welding joints to HDPE Pipe as confirming to DVS 2207 part-II.	5	Nos.			
6	DJB/2.13.1.6	Providing and supplying in standard lengths High Density Polyethylene (H.D.P.E) Pipes, confirming to	72	m			
7	DJB/2.13.2.6	Laying and jointing HDPE pipe in proper position by coupler sockets/butt fusion jointing procedure including hydraulic testing as per relevant IS Code complete with all materials for jointing procedures like butt fusion welding machine with hydraulic jack, top loading clamp etc. pump and accessories for hydraulic testing and all labours as directed by engineer in charge as confirming to IS - 7634:(Part II):2012 (amended up to date). 200 mm nominal outer diameter (OD) / inner dia. HDPE pipe of material grade PE 80 / PN 6					
		(a) Lowering and laying of HDPE Pipes at slope of 0.4 % including testing but excluding the cost of jointing.	72	m			
		(b) Providing coupler sockets /butt fusion welding joints to above HDPE Pipe as confirm to DVS 2207	4	Nos.			

8	CPWD /18.32	Construction of masonry Chamber 30x30x50 cm inside, in half brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sewer lines with medium duty RCC pre-cast (Heavy Duty) manhole cover with MS frame including RCC outer frame suitable for the 30 x 30 cm chamber, i/c necessary excavation, foundation concrete 15 cm layer of 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) followed by 10 cm cement concrete of 1:2:4: (1 cement: 2 sand: 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design : 18.32.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	35	Nos.			
9	CPWD /18.32.a	Construction of masonry Chamber 23x23x30 cm inside, in half brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sewer lines with medium duty RCC pre-cast (Heavy Duty) manhole cover with MS frame including RCC outer frame suitable for the 30 x 30 cm chamber, i/c necessary excavation, foundation concrete 15 cm layer of 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) followed by 10 cm cement concrete of 1:2:4: (1 cement: 2 sand: 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design : 18.32.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	50	Nos.			
10	CPWD /19.21.1	Making connections of drain or sewer lines with existing manholes and making good the walls and floors/ pavements with CC 1:2:4 (1 cement: 2 sand : 4 stone aggregate) for pipes 100 mm dia to 200 mm dia pipes.	50	Nos.			
11	CPWD/4.1.8	Providing and laying cement concrete in position over the existing brick pavement of 1:4:8 (1 cement: 4 sand: 8 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in Foundation and Plinth / floors/pavements to make the even base and gradient for top layers of the pavement as per C.P.P.W.D. Specifications.	54.8	cum			
12	CPWD/4.1.4	Providing and laying cement concrete in position of grade 1:2:4 (1 cement: 2 sand: 4 graded stone aggregate 20 mm nominal size) and curing complete	87.5	cum			

GRAND TOTAL