

Sr.No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
18-1	Forming, dressing and preparing sub-grade to provide smooth and finished surface for lining in bed and on side slopes on already compacted embankment of canals.				18.3.2 18.4.3
a)	In bed	Sq.m. Sq.ft.	95.00 8.85	95.00 8.85	
b)	On slopes	Sq.m. Sq.ft.	130.00 12.10	130.00 12.10	
18-2	Trench excavation for profile walls of lining in bed and on slopes below sub-grade level and disposal of excavated material upto 50 ft (15 m.)	Cu.m. Cu.ft.	33.75 3.15	33.75 3.15	18.3.3
18-3	Providing and laying 2" (50 mm) thick stabilizing layer of cement sand mortar(1:30) on slopes including curing. Excavation below sub-grade line will be paid under item 18-2	Sq.m. Sq.ft.	182.50 16.95	174.04 16.15	18.3.4
18-4	Providing and laying 1/2 " (13 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
a)	In bed	Sq.m. Sq.ft.	116.55 10.85	224.70 20.90	
b)	On slopes	Sq.m. Sq.ft.	144.15 13.40	240.30 22.35	
18-5	Providing and laying 1" (25 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
a)	In bed	Sq.m. Sq.ft.	141.90 13.20	327.15 30.40	
b)	On slopes	Sq.m. Sq.ft.	178.75 16.60	364.00 33.85	
18-6	Providing and laying 1.25" (32 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
a)	In bed	Sq.m. Sq.ft.	178.75 16.60	415.70 38.65	
b)	On slopes	Sq.m. Sq.ft.	216.25 20.10	453.20 42.10	
18-7	Providing and laying 1.5" (38 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
a)	In bed	Sq.m. Sq.ft.	216.25 20.10	493.85 45.90	

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	b) On slopes	Sq.m. Sq.ft.	228.75 21.25	506.35 47.05	
18-8	Providing and laying 1.75" (45 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
	a) In bed	Sq.m. Sq.ft.	228.75 21.25	558.05 51.85	
	b) On slopes	Sq.m. Sq.ft.	257.50 23.95	586.80 54.55	
18-9	Providing and laying 1/2 " (13 mm) thick cement plaster 1:3 in bed and on slopes of canals including trowel finishing and curing.				18.3.4
	a) In bed	Sq.m. Sq.ft.	116.55 10.85	267.10 24.80	
	b) On slopes	Sq.m. Sq.ft.	144.15 13.40	294.70 27.40	
18-10	Providing and spraying asphalt/bitumen membrane 1.65 kg/sq.m. having a thickness of not less than (1/16") 1.6mm on mortar base and/or on lining including heating and cost of hire charges of plant.	Sq.m. Sq.ft.	73.15 6.80	413.40 38.40	18.2
18-11	Providing and spraying asphalt/bitumen membrane 3.30 kg/sq.m. having a thickness of not less than (1/8") 3.2mm on mortar base and/or on lining including heating and cost of hire charges of plant.	Sq.m. Sq.ft.	104.05 9.65	714.30 66.40	18.2
18-12	Providing and laying first class burnt brick tiles 12" x 6" x 2" (305mm x152mm x 51mm) in lining between profile walls in 1 : 6 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.				18.3
	a) In bed	Cu.m. Cu.ft.	2,710.95 76.75	13,119.92 371.55	
	b) On slopes	Cu.m. Cu.ft.	3,142.20 89.00	13,595.39 385.00	
18-13	Providing and laying first class burnt brick tiles 12" x 6" x 2" (305mm x152mm x 51mm) in lining between profile walls in 1:3 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.				18.3

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a)	In bed	Cu.m.	2,710.95	15,128.65	18.3
		Cu.ft.	76.75	428.40	
b)	On slopes	Cu.m.	3,142.20	14,732.45	
		Cu.ft.	89.00	417.20	
18-14	Providing and laying first class burnt brick 9" x 4.38" x 2.69" (230mm x110mm x 68mm) in lining between profile walls in 1:6 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on the site as per design requirements, will be paid separately.				
a)	In bed	Cu.m.	2,710.95	9,956.09	
		Cu.ft.	76.75	281.95	
b)	On slopes	Cu.m.	3,142.20	10,098.70	
		Cu.ft.	89.00	285.95	
18-15	Providing and laying first class burnt brick 9" x 4.38" x 2.69" (230mm x110mm x 68mm) in lining between profile walls in 1:3 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.				
a)	In bed	Cu.m.	2,710.95	10,469.63	
		Cu.ft.	76.75	296.50	
b)	On slopes	Cu.m.	3,142.20	10,879.67	
		Cu.ft.	89.00	308.10	
18-16	Providing and laying in situ cement concrete using local crushed aggregate 3/4" (19mm) thick and down gauge in canal lining including scaffolding, formwork, its removal and curing.				
a)	In bed				
i)	Cement concrete lining 1 : 2 : 4	Cu.m.	2,417.20	7,775.45	
		Cu.ft.	68.45	220.20	
ii)	Cement concrete lining 1 : 3 : 6	Cu.m.	2,417.20	6,972.70	
		Cu.ft.	68.45	197.45	
iii)	Cement concrete lining 1 : 4 : 8	Cu.m.	2,417.20	6,310.06	
		Cu.ft.	68.45	178.70	
b)	On slopes				
i)	Cement concrete lining 1 : 2 : 4	Cu.m.	2,820.30	6,895.31	
		Cu.ft.	79.85	195.25	
ii)	Cement concrete lining 1 : 3 : 6	Cu.m.	2,820.30	6,386.48	
		Cu.ft.	79.85	180.85	

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18-17	iii) Cement concrete lining 1 : 4 : 8	Cu.m. Cu.ft.	2,820.30 79.85	5,559.53 157.45	18.4
	Extra if Margalla crushed stone 3/4" (19mm) & down gauge is used in place of local crushed aggregate over item 18-16				
	a) 1 : 2 : 4 (1 cement, 2 sand & 4 crushed stone)	Cu.m. Cu.ft.	- -	1,399.20 39.60	
	b) 1 : 3 : 6 (1 cement, 3 sand & 6 crushed stone)	Cu.m. Cu.ft.	- -	1,462.80 41.40	
	c) 1 : 4 : 8 (1 cement, 4 sand & 8 crushed stone)	Cu.m. Cu.ft.	- -	1,510.50 42.75	

