

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

9th R A BILL MEASUREMENTS

Branch Of Sewer K- At Silk Mill Colony

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4			ITEM 5		ITEM 7	ITEM 10	ITEM 11	ITEM 17	ITEM 18		ITEM 19		ITEM 23	ITEM 23.1	ITEM 30	ITEM 33	
			0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	3.0-4.5	1.5-3.0	150mm					400mm	150mm	2-5 m	Rebate				150mm	c
1	For Pipe		147.264	30.660	225.088	30.660	155.328	207.381	4.365	84.773	50.988	25.000	101.437	240.000	4.000	4.000	4.000	4.000	4.000	15.00	(71.424)	754.33	2.000	12.524
2	For Manhole		56.276	14.671	79.376	14.671	43.407	88.583	6.969	54.669			113.348	240.000								232.609		
Total			205.562	45.621	305.166	45.621	198.735	295.964	11.334	139.442	50.988	25.000	214.785	240.000	4.000	4.000	4.000	4.000	15.00	(71.424)	986.94	2.000	12.524	



Authorised Signatory



Project Engineer



Project Manager

PMC

CLIENT

[Signature]
Dy. Engineer

Ex. Engineer

to

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GSP 18 pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Name of Agency:- M's Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

Branch at Sigma Hospital 600-MB

9th RA BILL MEASUREMENTS
Branch Of Sewer K at Cigma Hospital

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	K Sewer-600mm Dia (Cigma Hospital to Reliance Mall)										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.6+0.17+0.17+0.5=1.44m										
	From Bottom Lift 1.50-3.00m- 0.6+0.17+0.17+0.5+0.4=1.84m										
	From Bottom Lift 3.00-4.50m- 0.6+0.17+0.17+0.5+0.4+0.4 = 2.24m										
	From Bottom Lift 4.50-6.0m- 0.6+0.17+0.17+0.5+0.4+0.4+0.4 = 2.64m										
	30M GAP										
06/02/2016	K 115.1										
	CH30.00	566.935	564.000	563.800			3.135				
	CH43.10	566.945	564.030	563.830			3.115	3.125			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.65	2.240	1.500	39.144		0.000	
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.300	6.431		0.000	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 1.5m to 3.0m	1			11.65	1.840	0.700	15.005		0.000	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 1.5m to 3.0m	1			11.65	1.840	0.500	10.718		0.000	
	(b) For Lift 3.0m to 4.5m	1			11.65	1.440	0.125	2.097		0.000	
	Item No. 7 :- Filling in plinth and floor/ trenches etc complete (bedding)	1			11.65	1.440	0.200	3.355		0.000	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.777		0.000	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		0.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							73.395			
	Deduction										
	pipe area	1.00		0.785	11.65	0.770	0.770	5.42			
	soiling							0.00			
	POC							0.00			
	Murum bedding							3.36			
	Total = B							8.78			
								64.62		0.000	
09/02/2016											
	CH43.10	566.945	564.030	563.830			3.115				
	CH56.20	567.045	564.060	563.860			3.185	3.150			



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Gonstruction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

Page No. :- 105

2

Branch at Sigma Hospital 600-MB

	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			11.65	2.240	1.500	39.144	39.144	78.288
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.400	8.574	6.431	15.005
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.600	12.862	15.005	27.867
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.500	10.718	10.718	21.436
	(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.150	2.516	2.097	4.613
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355	3.355	6.710
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.777	8.777	17.555
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500	12.500	25.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A=							73.814		
	Deduction									
	pipe area	1.00		0.785	11.65	0.770	0.770	5.42		
	soling							0.00		
	PCC							0.00		
	Murum bedding							3.36		
	Total = B							8.78		
								Net Qty = A - B	65.04	
11/02/2016	K 115.2								64.618	129.655
	CH56.20	567.045	564.060	563.860			3.185			
	CH76.80	567.085	564.108	563.908			3.177	3.181		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			19.15	2.240	1.500	64.344	78.288	142.632
	(b) For Lift 1.5m to 3.0m	1			19.15	1.840	0.500	17.618	15.005	32.623
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1			19.15	1.840	0.600	21.142	27.867	49.008
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(b) For Lift 1.5m to 3.0m	1			19.15	1.840	0.400	14.094	21.436	35.530
	(c) For Lift 3.0m to 4.5m	1			19.15	1.440	0.181	4.991	4.613	9.605
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.440	0.200	5.515	6.710	12.226
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							14.428	17.555	31.983
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000	25.000	45.000



12

Name of Work:- Development of Underground Sewerage Collection System for Zone 1 & 2 and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Branch at Sigma Hospital 600-MB

	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.189	3.851		14.731	18.582
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.440	0.200	4.075		17.986	22.061
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.661		47.051	57.712
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		65.000	80.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							90.449			
	Deduction										
	pipe area	1.00		0.785	14.15	0.770	0.770	6.59			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.08			
	Total = B							10.66			
								Net Qty = A - B		79.79	
16/02/2016	K 115.3									349.874	429.662
	CH112.40	567.190	564.392	564.192			2.998	4.145			
	CH128.00	569.520	564.428	564.228			5.292				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.15	2.240	1.500	47.544		257.376	304.920
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	1.300	33.847		64.041	97.888
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.200	5.207		89.314	94.521
	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.700	14.263		0.000	14.263
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.445	9.067		18.582	27.649
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.440	0.200	4.075		22.061	26.136
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.661		57.712	68.373
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		80.000	95.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							109.929			
	Deduction										
	pipe area	1.00		0.785	14.15	0.770	0.770	6.59			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.08			
	Total = B							10.66			
								Net Qty = A - B		99.27	
16/02/2016										429.662	528.929
	CH128.00	569.520	564.428	564.228			5.292	5.376			
	CH146.10	569.730	564.470	564.270			5.460				



1

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5

Branch at Sigma Hospital 600-MB

Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			16.50	2.640	1.250	54.450		304.920	359.370
(b) For Lift 1.5m to 3.0m	1			16.50	2.240	1.500	55.440		97.888	153.328
(c) For Lift 3.0m to 4.5m	1			16.50	1.840	1.000	30.360		0.000	30.360
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			16.50	2.640	0.150	6.534		0.000	6.534
(c) For Lift 3.0m to 4.5m	1			16.50	1.840	0.500	15.180		14.263	29.443
(d) For Lift 4.5m to 6.0m	1			16.50	1.440	0.876	20.814		0.000	20.814
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			16.50	2.640	0.100	4.356		0.000	4.356
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.50	1.440	0.200	4.752		26.136	30.888
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							12.432		68.373	80.805
Item No 17 (d):- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50			17.500		95.000	112.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							187.134			
Deduction										
pipe area	1.00			0.785	16.50	0.770	7.68			
soling							0.00			
PCC							0.00			
Murrum bedding							4.75			
Total = B							12.43			
							Net Qty = A - B		174.70	528.929
										703.631
29/02/2024	K 1154									
CR146.00	569.730	564.770	564.570				5.160			
CR147.70	569.780	564.806	564.606				5.174	5.167		
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			14.00	2.640	1.100	40.656		359.370	400.026
(b) For Lift 1.5m to 3.0m	1			14.00	2.240	1.500	47.040		153.328	200.368
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			14.00	2.640	0.300	11.088		6.534	17.622
(c) For Lift 3.0m to 4.5m	1			14.00	1.840	1.500	38.640		29.443	68.083
(d) For Lift 4.5m to 6.0m	1			14.00	1.440	0.667	13.447		20.814	34.260
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			14.00	2.640	0.100	3.696		4.356	8.052
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.00	1.440	0.200	4.032		30.888	34.920
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.548		80.805	91.353



12

6

Branch at Sigma Hospital 600-MB

	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		112.500	127.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							154.567			
	Deduction										
	pipe area	1.00			0.785	14.00	0.770	0.770		6.52	
	soiling									0.00	
	PCC									0.00	
	Murum bedding									4.03	
	Total = B									10.55	
19/02/2016											
	CH161.70	569.780	564.806	564.606				5.174	5.198		
	CH179.80	569.915	564.892	564.692				5.223			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.65	2.640	1.500	65.934		400.026	465.960
	(b) For Lift 1.5m to 3.0m	1			16.65	2.240	1.500	55.944		200.368	256.312
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			16.65	1.840	1.500	45.954		68.083	114.037
	(d) For Lift 4.5m to 6.0m	1			16.65	1.440	0.698	16.735		34.260	50.996
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			16.65	1.440	0.200	4.795		34.920	39.715
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate								12.545	91.353	103.898
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50			17.500		127.500	145.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=										
	Deduction										
	pipe area	1.00			0.785	16.65	0.770	0.770		7.75	
	soiling									0.00	
	PCC									0.00	
	Murum bedding									4.80	
	Total = B									12.54	
19/02/2016											
	K 115.5										
	CH179.80	569.915	565.078	564.878				5.037	4.272		
	CH195.40	568.420	565.114	564.914				3.506			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.15	2.240	1.500	47.544		465.960	513.504
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.700	18.225		256.312	274.537
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.800	20.829		94.521	115.350
	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.600	12.226		114.037	126.263
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.672	13.693		27.649	41.342



12

Branch at Sigma Hospital 600-MB

Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.440	0.200	4.075		39.715	43.790
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.661		103.898	114.558
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		145.000	160.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							112.516			
Deduction										
pipe area	1.00		0.785	14.15	0.770	0.770	6.59			
soling							0.00			
PCC							0.00			
Murum bedding							4.08			
Total = B							10.66			
							101.86		1019.673	1121.528
21/02/2016										
CH195.40	568.420	565.114	564.914				3.506			
CH210.40	568.260	565.150	564.950				3.310	3.408		
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			15.00	2.240	1.500	50.400		513.504	563.904
(b) For Lift 1.5m to 3.0m	1			15.00	1.840	0.300	8.280		274.537	282.817
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(b) For Lift 1.5m to 3.0m	1			15.00	1.840	1.200	33.120		115.350	148.470
(c) For Lift 3.0m to 4.5m	1			15.00	1.440	0.300	6.480		126.263	132.743
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			15.00	1.440	0.108	2.333		41.342	43.675
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.440	0.200	4.320		43.790	48.110
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							11.301		114.558	125.860
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		160.000	175.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							100.613			
Deduction										
pipe area	1.00		0.785	15.00	0.770	0.770	6.98			
soling							0.00			
PCC							0.00			
Murum bedding							4.32			
Total = B							11.30			
							89.31		1121.528	1210.840
23/02/2016										
CH210.40	568.260	565.150	564.950				3.310			
CH225.40	567.900	565.186	564.986				2.914	3.112		



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and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

8

Branch at Sigma Hospital 600-MB

Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.												
(a) For Lift 0 to 1.5m	1			15.00	2.240	1.500	50.400			563.904	614.304	
(b) For Lift 1.5m to 3.0m	1			15.00	1.840	0.300	8.280			282.817	291.097	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(b) For Lift 1.5m to 3.0m	1			15.00	1.840	1.200	33.120			148.470	181.590	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(c) For Lift 3.0m to 4.5m	1			15.00	1.440	0.112	2.419			43.675	46.094	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.440	0.200	4.320			48.110	52.430	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							11.301			125.860	137.161	
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000			175.000	190.000	
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A=							94.219					
Deduction												
pipe area	1.00		0.785	15.00	0.770	0.770	6.98					
soling							0.00					
PCC							0.00					
Murrum bedding							4.32					
Total = B							11.30					
							Net Qty = A - B			82.92	1210.840	1293.757
23/02/2016												
CH225.40	567.900	565.186	564.986			2.914	3.006					
CH240.40	568.120	565.222	565.022			3.098						
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.												
(a) For Lift 0 to 1.5m	1			15.00	1.840	1.500	41.400			614.304	655.704	
(b) For Lift 1.5m to 3.0m	1			15.00	1.440	0.200	4.320			291.097	295.417	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(b) For Lift 1.5m to 3.0m	1			15.00	1.440	1.200	25.920			181.590	207.510	
Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.												
(b) For Lift 1.5m to 3.0m	1			15.00	1.440	0.100	2.160			58.061	60.221	
(c) For Lift 3.0m to 4.5m	1			15.00	1.440	0.006	0.130			46.094	46.224	
Item No. 7 -> Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.440	0.200	4.320			52.430	56.750	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							11.301			137.161	148.463	
Item No 17 (d) -> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000			190.000	205.000	



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9

Branch at Sigma Hospital 600-MB

	Item No 30 :- Refilling the excavated trenches ...																			
	Total Excavation= A=																			73.930
	Deduction																			
	pipe area	1.00			0.785	15.00	0.770	0.770												6.98
	soiling																			0.00
	PCC																			0.00
	Murum bedding																			4.32
	Total = B																			11.30
																				Net Qty = A - B
																				62.63
23/02/2016																				1293.757
	CH240.40	568.120	565.222	565.022						3.098										
	CH256.00	568.270	565.258	565.058						3.212										3.155
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.																			
	(a) For Lift 0 to 1.5m	1				14.15	2.240	1.500												47.544
	(b) For Lift 1.5m to 3.0m	1				14.15	1.840	0.100												2.604
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.																			
	(b) For Lift 1.5m to 3.0m	1				14.15	1.840	1.300												33.847
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.																			
	(b) For Lift 1.5m to 3.0m	1				14.15	1.840	0.100												2.604
	(c) For Lift 3.0m to 4.5m	1				14.15	1.440	0.155												3.158
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				14.15	1.440	0.200												4.075
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate																			10.661
	Item No 17 (d) :- Lowering & Laying RCC NPS class pipe of 600mm dia	1				15.00														15.000
	Item No 30 :- Refilling the excavated trenches ...																			
	Total Excavation= A=																			89.756
	Deduction																			
	pipe area	1.00			0.785	14.15	0.770	0.770												6.59
	soiling																			0.00
	PCC																			0.00
	Murum bedding																			4.08
	Total = B																			10.66
																				Net Qty = A - B
																				79.10
23/02/2016	K 115.6																			1356.386
	CH256.00	568.270	565.558	565.358						2.912										
	CH271.60	568.760	565.594	565.394						3.366										3.139
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.																			
	(a) For Lift 0 to 1.5m	1				14.15	2.240	1.500												47.544
	(b) For Lift 1.5m to 3.0m	1				14.15	1.840	0.300												7.811
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.																			
	(b) For Lift 1.5m to 3.0m	1				14.15	1.840	1.200												31.243
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.																			
	(c) For Lift 3.0m to 4.5m	1				14.15	1.440	0.139												2.832



17

Name of Work:- Development of Underground Sewerage Collection System for Zone 1 to 4 and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

... & CFCPL (Joint Venture)

10

Branch at Sigma Hospital 600-MB

	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.440	0.200	4.075		60.826	64.901
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.661		159.124	169.785
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		220.000	235.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							89.430			
	Deduction										
	pipe area	1.00		0.785	14.15	0.770	0.770	6.59			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.08			
	Total = B							10.66			
								Net Qty = A - B		78.77	
23/02/2016										1435.481	1514.250
	CH271.60	568.760	565.594	565.394				3.366			
	CH284.70	569.220	565.624	565.424				3.796	3.581		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.65	2.240	1.500	39.144		750.792	789.936
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.600	12.862		305.832	318.693
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.900	19.292		272.600	291.892
	(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.500	8.388		132.743	141.131
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.081	1.359		52.214	53.573
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355		64.901	68.256
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.777		169.785	178.562
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		235.000	247.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							81.045			
	Deduction										
	pipe area	1.00		0.785	11.65	0.770	0.770	5.42			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.36			
	Total = B							8.78			
								Net Qty = A - B		72.27	
23/02/2016	K 115.7									1514.250	1586.518
	CH284.70	569.220	565.624	565.424				3.796			
	CH297.80	569.490	565.654	565.454				4.036	3.916		



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Branch at Sigma Hospital 600-MB

Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			11.65	2.240	1.500	39.144		789.936	829.080
(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.700	15.005		318.693	333.698
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.800	17.149		291.892	309.041
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.700	11.743		141.131	152.874
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.216	3.624		53.573	57.197
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355		68.256	71.611
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.777		178.562	187.339
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		247.500	260.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							86.665			
Deduction										
pipe area	1.00		0.785	11.65	0.770	0.770	5.42			
soling							0.00			
PCC							0.00			
Murrum bedding							3.36			
Total = B							8.78			
							77.89		1586.518	1664.405
24/02/2016							Net Qty = A - B			
CR297.80	569.490	565.654	565.454			4.036				
CR338.90	569.510	565.684	565.484			4.026	4.031			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			11.65	2.240	1.500	39.144		829.080	868.224
(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.700	15.005		333.698	348.704
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(b) For Lift 1.5m to 3.0m	1			11.65	1.840	0.800	17.149		309.041	326.190
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.800	13.421		152.874	166.295
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.231	3.875		57.197	61.072
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355		71.611	74.966
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.777		187.339	196.117
Item No 17 (d) :- Lowering & Laying RCC NPS class pipe of 600mm Dia	1			12.50			12.500		260.000	272.500



12

Name of work:- Development of Underground Sewerage Collection and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

14

Branch at Sigma Hospital 600-MB

Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			11.50	2.240	0.100	2.576		8.052	10.628
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.50	1.440	0.200	3.312		88.632	91.944
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							8.664		231.867	240.531
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		322.500	335.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							82.800			
Deduction										
pipe area	1.00			0.785	11.50	0.770	0.770	5.35		
soiling								0.00		
PCC								0.00		
Murrum bedding								3.31		
Total = B							8.66			
							Net Qty = A - B		74.14	
									2043.735	2117.871
02/03/2016										
CH675.80	574.380	570.740	570.540				3.840	3.840		
CH688.30	574.410	570.770	570.570				3.840			
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			12.50	2.240	1.400	39.200		53.686	92.886
(b) For Lift 1.5m to 3.0m	1			12.50	1.840	1.500	34.500		455.045	489.545
(c) For Lift 3.0m to 4.5m	1			12.50	1.440	0.840	15.120		213.415	228.535
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			12.50	2.240	0.100	2.800		10.628	13.428
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.50	1.440	0.200	3.600		91.944	95.544
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							9.418		240.531	249.949
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		335.000	347.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							91.620			
Deduction										
pipe area	1.00			0.785	12.50	0.770	0.770	5.82		
soiling								0.00		
PCC								0.00		
Murrum bedding								3.60		
Total = B							9.42			
							Net Qty = A - B		82.20	
									2117.871	2200.073
03/03/2016										
CH688.30	574.410	570.770	570.570				3.840	3.900		
CH701.40	574.560	570.800	570.600				3.960			
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



17

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone VII. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Patla, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aaragabhad City.

Book No. :-

Page No. :-

15

Branch at Sigma Hospital 600-MB

(a) For Lift 0 to 1.5m	1			11.50	2240	1.400	36.064		92.886	128.950
(b) For Lift 1.5m to 3.0m	1			11.50	1840	1.500	31.740		489.545	521.285
(c) For Lift 3.0m to 4.5m	1			11.50	1440	0.200	3.312		228.535	231.847
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			11.50	2240	0.100	2.576		13.428	16.004
(c) For Lift 3.0m to 4.5m	1			11.50	1440	0.700	11.592		71.242	82.834
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	1			11.50	1440	0.200	3.312		95.544	98.856
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate										
							8.664		249.949	258.614
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia										
	1			12.50			12.500		347.500	360.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							85.284			
Deduction										
pipe area	1.00		0.785	11.50	0.770	0.770	5.35			
soling							0.00			
PCC							0.00			
Murrum bedding							3.31			
Total = B							8.66			
Net Qty = A - B							76.62		2200.073	2276.693
03/03/2016	K 115.17									
	CH701.40	574.560	570.800	570.600			3.960	4.001		
	CH710.10	574.660	570.818	570.618			4.042			
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			5.50	2240	1.400	17.248		128.950	146.198
(b) For Lift 1.5m to 3.0m	1			5.50	1840	1.500	15.180		521.285	536.465
(c) For Lift 3.0m to 4.5m	1			5.50	1440	0.300	2.376		231.847	234.223
Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			5.50	2240	0.100	1.232		16.004	17.236
(c) For Lift 3.0m to 4.5m	1			5.50	1440	0.701	5.552		82.834	88.386
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	1			5.50	1440	0.200	1.584		98.856	100.440
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate										
							4.144		258.614	262.757
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia										
	1			7.50			7.500		360.000	367.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							41.588			
Deduction										
pipe area	1.00		0.785	5.50	0.770	0.770	2.56			
soling							0.00			
PCC							0.00			
Murrum bedding							1.58			
Total = B							4.14			
Net Qty = A - B							37.44		2276.693	2314.193
06/03/2016	K 115.18									



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No. 02 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

Book No. :- 119
Page No. :-

CH710.10	574.660	570.818	570.618			4.042				
CH730.70	575.070	570.866	570.666			4.404	4.223			
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			19.00	2.240	1.400	59.584	146.198	205.782	
(b) For Lift 1.5m to 3.0m	1			19.00	1.840	1.500	52.440	536.465	588.905	
(c) For Lift 3.0m to 4.5m	1			19.00	1.440	1.223	33.461	234.223	267.684	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			19.00	2.240	0.100	4.256	17.236	21.492	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.00	1.440	0.200	5.472	100.440	105.912	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							14.315	262.757	277.073	
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000	367.500	387.500	
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							149.741			
Deduction										
pipe area	1.00		0.785	19.00	0.770	0.770	8.84			
soling							0.00			
PCC							0.00			
Murrum bedding							5.47			
Total = B							14.32			
							Net Qty = A - B	135.43	2314.137	2449.563
06/03/2016										
CH730.70	575.070	570.866	570.666			4.404				
CH750.70	575.170	570.914	570.714			4.456	4.430			
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			20.00	2.240	1.400	62.720	205.782	268.502	
(b) For Lift 1.5m to 3.0m	1			20.00	1.840	1.500	55.200	588.905	644.105	
(c) For Lift 3.0m to 4.5m	1			20.00	1.440	1.430	41.184	267.684	308.868	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			20.00	2.240	0.100	4.480	21.492	25.972	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.00	1.440	0.200	5.760	105.912	111.672	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							15.069	277.073	292.141	
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000	387.500	407.500	
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							163.584			
Deduction										
pipe area	1.00		0.785	20.00	0.770	0.770	9.31			
soling							0.00			
PCC							0.00			
Murrum bedding							5.76			



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17

Branch at Sigma Hospital 600-MB

Total = B		Net Qty = A - B					15.07					
09/03/2016						148.52		2449.563	2598.079			
CH750.70	575.170	570.914	570.714			4.456						
CH770.70	575.320	570.962	570.762			4.558	4.507					
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1			20.00	2.240	1.400	62.720	268.502	331.222			
(b) For Lift 1.5m to 3.0m	1			20.00	1.840	1.500	55.200	644.105	699.305			
(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.800	23.040	308.868	331.908			
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1			20.00	2.240	0.100	4.480	25.972	30.452			
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.												
(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.700	20.160	0.000	20.160			
(d) For Lift 4.5m to 6.0m	1			20.00	1.440	0.007	0.202	0.000	0.202			
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)												
	1			20.00	1.440	0.200	5.760	111.672	117.432			
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate												
							15.069	292.141	307.210			
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia												
	1			20.00			20.000	407.500	427.500			
Item No 30 :- Refilling the excavated trenches --												
Total Excavation= A=							165.802					
Deduction												
pipe area							1.00	0.785	20.00	0.770	0.770	9.31
soiling											0.00	
PCC											0.00	
Murrum bedding											5.76	
Total = B											15.07	
Net Qty = A - B							150.73		2598.079	2748.812		
09/03/2016												
CH770.70	575.320	570.962	570.762			4.558						
CH790.70	575.420	571.010	570.810			4.610	4.584					
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1			20.00	2.240	1.400	62.720	331.222	393.942			
(b) For Lift 1.5m to 3.0m	1			20.00	1.840	1.500	55.200	699.305	754.505			
(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.800	23.040	331.908	354.948			
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1			20.00	2.240	0.100	4.480	30.452	34.932			
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.												
(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.700	20.160	20.160	40.320			
(d) For Lift 4.5m to 6.0m	1			20.00	1.440	0.084	2.419	0.202	2.621			
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)												
	1			20.00	1.440	0.200	5.760	117.432	123.192			



12

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :- 121
Page No. :-

18

Branch at Sigma Hospital 600-MB

	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							15.069	307.210	322.278	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000	427.500	447.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							168.019			
	Deduction										
	pipe area	1.00		0.785	20.00	0.770	0.770	9.31			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							5.76			
	Total = B							15.07			
								Net Qty = A - B	152.95	2748.812	2901.762
09/03/2016											
	CH790.70	575.420	571.010	570.810			4.610	4.561			
	CH810.70	575.370	571.058	570.858			4.512				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	2.240	0.300	13.440	1027.656	1041.096	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	2.240	1.100	49.280	393.942	443.222	
	(b) For Lift 1.5m to 3.0m	1			20.00	1.840	1.500	55.200	754.505	809.705	
	(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.900	25.920	354.948	380.868	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	2.240	0.100	4.480	34.932	39.412	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			20.00	1.440	0.600	17.280	40.320	57.600	
	(d) For Lift 4.5m to 6.0m	1			20.00	1.440	0.061	1.757	2.621	4.378	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.00	1.440	0.200	5.760	123.192	128.952	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							15.069	322.278	337.347	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000	447.500	467.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							167.357			
	Deduction										
	pipe area	1.00		0.785	20.00	0.770	0.770	9.31			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							5.76			
	Total = B							15.07			
								Net Qty = A - B	152.29	2901.762	3054.051
09/03/2016											
	CH810.70	575.370	571.058	570.858			4.512	4.530			
	CH821.30	575.430	571.082	570.882			4.548				



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :-

Page No. :- 123

20

Branch at Sigma Hospital 600-MB

Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.00	1.440	0.200	4.032		131.544	135.576	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.548		344.128	354.676	
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		477.500	492.500	
Item No 30 :- Refilling the excavated trenches ...							144.043				
Total Excavation= A=											
Deduction							6.52				
pipe area	1.00		0.785	14.00	0.770	0.770	0.00				
soling							0.00				
PCC							4.03				
Murram bedding							10.55				
Total = B							133.50		3122.179	3255.674	
				Net Qty = A - B							
13/03/2016											
CH836.90		575.660	571.118	570.918			4.742	4.769			
CH851.90		575.750	571.154	570.954			4.796				
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											
(a) For Lift 0 to 1.5m	1			15.00	2.640	0.300	11.880		1058.232	1070.112	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			15.00	2.640	1.100	43.560		506.054	549.614	
(b) For Lift 1.5m to 3.0m	1			15.00	2.240	1.500	50.400		881.585	931.985	
(c) For Lift 3.0m to 4.5m	1			15.00	1.840	1.400	38.640		422.164	460.804	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			15.00	2.640	0.100	3.960		45.124	49.084	
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.											
(c) For Lift 3.0m to 4.5m	1			15.00	1.840	0.100	2.760		74.384	77.144	
(d) For Lift 4.5m to 6.0m	1			15.00	1.440	0.269	5.810		7.690	13.500	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.440	0.200	4.320		135.576	139.896	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							11.301		354.676	365.977	
Item No 17 (d) :- Lowering & Laying RCC NPS class pipe of 600mm Dia	1			15.00			15.000		492.500	507.500	
Item No 30 :- Refilling the excavated trenches ...							157.010				
Total Excavation= A=											
Deduction							6.98				
pipe area	1.00		0.785	15.00	0.770	0.770	0.00				
soling							0.00				
PCC							4.32				
Murram bedding							11.30				
Total = B							145.71		3255.674	3401.383	
				Net Qty = A - B							



17

Name of work:- Construction of Underground Sewerage Collection system for Zone I to VI
 and Zone VII to VIII Constructing, Erecting, Testing and Commissioning of Sewage Treatment
 plant using modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth
 Garden, Zalta, Padegaon, CIDCO (Airport); Construction, Erection, Testing and Commission
 of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

Branch at Sigma Hospital 600-MB

17/05/2016									
CH851.90	575.750	571.154	570.954			4.796			
CH866.90	575.920	571.190	570.990			4.930	4.863		
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.									
(a) For Lift 0 to 1.5m	1			15.00	2.640	0.300	11.880		1070.112 1081.992
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
(a) For Lift 0 to 1.5m	1			15.00	2.640	1.100	43.560		549.614 593.174
(b) For Lift 1.5m to 3.0m	1			15.00	2.240	1.500	50.400		931.985 982.385
(c) For Lift 3.0m to 4.5m	1			15.00	1.840	1.500	41.400		460.804 502.204
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
(a) For Lift 0 to 1.5m	1			15.00	2.640	0.100	3.960		49.084 53.044
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.									
(d) For Lift 4.5m to 6.0m	1			15.00	1.440	0.369	7.970		13.500 21.470
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	1			15.00	1.440	0.200	4.320		139.896 144.216
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate									
							11.301		365.977 377.278
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia									
	1			15.00			15.000		507.500 522.500
Item No 30 :- Refilling the excavated trenches ...									
Total Excavation= A=							159.170		
Deduction									
pipe area	1.00		0.785	15.00	0.770	0.770	6.98		
soiling							0.00		
PCC							0.00		
Murrum bedding							4.32		
Total = B							11.30		
Net Qty = A - B							147.87	3401.383	3549.252
17/05/2016									
CH866.90	575.920	571.190	570.990			4.930			
CH880.00	575.970	571.220	571.020			4.950	4.940		
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.									
(a) For Lift 0 to 1.5m	1			13.10	2.640	0.300	10.375		1081.992 1092.367
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
(a) For Lift 0 to 1.5m	1			13.10	2.640	1.100	38.042		593.174 631.216
(b) For Lift 1.5m to 3.0m	1			13.10	2.240	1.500	44.016		982.385 1026.401
(c) For Lift 3.0m to 4.5m	1			13.10	1.840	1.500	36.156		502.204 538.360
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
(a) For Lift 0 to 1.5m	1			13.10	2.640	0.100	3.458		53.044 56.502
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.									
(d) For Lift 4.5m to 6.0m	1			13.10	1.440	0.440	8.300		21.470 29.771



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Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi-SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to CIDCO (Airport).

Book No. :-

Page No. :-

125

22

Branch at Sigma Hospital 600-M8

	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.10	1.440	0.200	3.773		144.216	147.989
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							9.870		377.278	387.148
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		522.500	535.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							140.348			
	Deduction										
	pipe area	1.00			0.785	13.10	0.770	0.770		6.10	
	soiling									0.00	
	PCC									0.00	
	Murum bedding									3.77	
	Total = B							9.87			
	Net Qty = A - B							130.48		3549.252	3679.730
22/03/2016	K 115.20										
	CH880.00	575.970	571.420	571.220				4.750			
	CH895.60	576.370	571.556	571.356				5.014	4.882		
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.00	2.640	1.400	51.744		631.216	682.960
	(b) For Lift 1.5m to 3.0m	1			14.00	2.240	1.500	47.040		1026.401	1073.441
	(c) For Lift 3.0m to 4.5m	1			14.00	1.840	0.900	23.184		538.360	561.544
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.00	2.640	0.100	3.696		56.502	60.198
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			14.00	1.840	0.600	15.456		77.144	92.600
	(d) For Lift 4.5m to 6.0m	1			14.00	1.440	0.332	6.693		29.771	36.464
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.00	1.440	0.200	4.032		147.989	152.021
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							10.548		387.148	397.696
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		535.000	550.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							147.813			
	Deduction										
	pipe area	1.00			0.785	14.00	0.770	0.770		6.52	
	soiling									0.00	
	PCC									0.00	
	Murum bedding									4.03	
	Total = B							10.55			
	Net Qty = A - B							137.27		3679.730	3816.995
22/03/2016											
	CH895.60	576.370	571.556	571.356				5.014			
	CH918.60	576.740	571.592	571.392				5.348	5.181		



16

Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			15.00	2.640	1.400	55.440		682.960	738.400
(b) For Lift 1.5m to 3.0m	1			15.00	2.240	1.500	50.400		1073.441	1123.841
(c) For Lift 3.0m to 4.5m	1			15.00	1.840	1.000	27.600		561.544	589.144
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			15.00	2.640	0.100	3.960		60.198	64.158
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			15.00	1.840	0.500	13.800		92.600	106.400
(d) For Lift 4.5m to 6.0m	1			15.00	1.440	0.681	14.710		36.464	51.173
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.440	0.200	4.320		152.021	156.341
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							11.301		397.696	408.998
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		550.000	565.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							165.910			
Deduction										
pipe area	1.00			0.785	15.00	0.770	6.98			
soling							0.00			
PCC							0.00			
Murrum bedding							4.32			
Total = B							11.30			
							Net Qty = A - B		154.61	
									3816.995	3971.603
22/03/2016										
CH918.60		576.740	571.592	571.392			5.348			
CH931.20		576.930	571.640	571.440			5.490	5.419		
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			19.00	2.640	1.400	70.224		738.400	808.624
(b) For Lift 1.5m to 3.0m	1			19.00	2.240	1.500	63.840		1123.841	1187.681
(c) For Lift 3.0m to 4.5m	1			19.00	1.840	1.300	45.448		589.144	634.592
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			19.00	2.640	0.100	5.016		64.158	69.174
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			19.00	1.840	0.200	6.992		106.400	113.392
(d) For Lift 4.5m to 6.0m	1			19.00	1.440	0.919	25.144		51.173	76.317
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.00	1.440	0.200	5.472		156.341	161.813
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							14.315		408.998	423.313
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		565.000	585.000



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

25

Branch at Sigma Hospital 600-MB

	(a) For Lift 0 to 1.5m	1			25.50	2.240	1.000	57.120		930.592	987.712
	(b) For Lift 1.5m to 3.0m	1			25.50	1.840	1.500	70.380		1298.561	1368.941
	(c) For Lift 3.0m to 4.5m	1			25.50	1.440	0.996	36.573		725.672	762.246
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			25.50	1.440	0.300	11.016		113.392	124.408
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.50	1.440	0.200	7.344		171.317	178.661
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							19.212		448.176	467.388
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.50			27.500		620.000	647.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							203.649			
	Deduction										
	pipe area	1.00		0.785	25.50	0.770	0.770	11.87			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	Total = B							19.21			
								Net Qty = A - B		184.44	
16/03/2016	K 115.23									4529.536	4713.973
	CH996.10	574.620	571.825	571.625			2.995	2.985			
	CH1016.70	574.630	571.855	571.655			2.975				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	1.500	52.854		1120.927	1173.781
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.800	22.061		382.550	404.611
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.685	18.890		1368.941	1387.830
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.440	0.200	5.515		178.661	184.176
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							14.428		467.388	481.816
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		647.500	667.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							93.804			
	Deduction										
	pipe area	1.00		0.785	19.15	0.770	0.770	8.91			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.52			
	Total = B							14.43			
								Net Qty = A - B		79.38	
16/03/2016										4713.973	4793.349
	CH1016.70	574.630	571.855	571.655			2.975	3.100			
	CH1029.20	574.910	571.885	571.685			3.225				



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Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.											
(a) For Lift 0 to 1.5m	1				12.50	1.840	1.500	34.500		1173.781	1208.281
(b) For Lift 1.5m to 3.0m	1				12.50	1.440	0.900	16.200		404.611	420.811
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
(b) For Lift 1.5m to 3.0m	1				12.50	1.440	0.600	10.800		1387.830	1398.630
(c) For Lift 3.0m to 4.5m	1				12.50	1.440	0.100	1.800		762.246	764.046
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				12.50	1.440	0.200	3.600		184.176	187.776
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate								9.418		481.816	491.234
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1				12.50			12.500		667.500	680.000
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A=								63.300			
Deduction											
pipe area	1.00			0.785	12.50	0.770	0.770	5.82			
soling								0.00			
PCC								0.00			
Murrum bedding								3.60			
Total = B								9.42			
								Net Qty = A - B		53.88	4793.349
17/03/2016											4847.231
CH1029.20	574.910	571.885	571.685				3.225				
CH1041.70	574.720	571.915	571.715				3.005	3.115			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.											
(a) For Lift 0 to 1.5m	1				12.50	2.240	1.500	42.000		1208.281	1250.281
(b) For Lift 1.5m to 3.0m	1				12.50	1.840	0.800	18.400		420.811	439.211
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
(b) For Lift 1.5m to 3.0m	1				12.50	1.840	0.700	16.100		1398.630	1414.730
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.											
(c) For Lift 3.0m to 4.5m	1				12.50	1.440	0.115	2.070		124.408	126.478
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				12.50	1.440	0.200	3.600		187.776	191.376
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate								9.418		491.234	500.652
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1				12.50			12.500		680.000	692.500
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A=								78.570			
Deduction											
pipe area	1.00			0.785	12.50	0.770	0.770	5.82			



12

	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate								12.545	509.429	521.974
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50				17.500	705.000	722.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=								107.149		
	Deduction										
	pipe area	1.00		0.785	16.65	0.770	0.770		7.75		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								4.80		
	Total = B								12.54		
									94.60	4981.890	5076.495
18/03/2016									Net Qty = A - B		
	CH1072.90	574.875	571.987	571.787				3.088	2.865		
	CH1090.40	574.470	572.029	571.829				2.641			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.50	1.840	1.500		48.300	1345.369	1393.669
	(b) For Lift 1.5m to 3.0m	1			17.50	1.440	0.200		5.040	470.454	475.494
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			17.50	1.440	0.800		20.160	1456.388	1476.548
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			17.50	1.440	0.365		9.198	5.207	14.405
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			17.50	1.440	0.200		5.040	199.526	204.566
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate								13.185	521.974	535.159
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50				17.500	722.500	740.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=								82.698		
	Deduction										
	pipe area	1.00		0.785	17.50	0.770	0.770		8.14		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								5.04		
	Total = B								13.18		
									69.51	5076.495	5146.005
									Net Qty = A - B		
	CH1090.40	574.470	572.029	571.829				2.641	2.792		
	CH1111.00	574.820	572.077	571.877				2.943			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	1.500		52.854	1393.669	1446.523
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.400		11.030	475.494	486.523



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