

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)

9th R A BILL MEASUREMENTS DWC PIPE Azad Chowk to Bajrang Chowk

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.20+0.5=0.70m										
	For Lift 1.5 to 3.00m- 0.20+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m- 0.20+0.5+0.4+0.4=1.50m										
	Old MH to AZ 01	Infront of Taj Ecectricals									
	CH0.00	588.925	587.105	587.005			1.920	1.870			
	CH12.00	589.125	587.405	587.305			1.820				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			9.3	1.100	1.500	15.345	0.000	15.345	
	(b) For Lift 1.5 to 3.0m	1			9.3	0.700	0.370	2.409	0.000	2.409	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.3	0.700	0.100	0.721	0.000	0.721	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.044	0.000	1.044	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.80			10.800	0.000	10.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=-							17.754			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	10.30	0.200	0.200	0.32			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.72			
								1.04			
	Net Qty = A - B							16.71	0.00	16.71	
	AZ 01 to AZ 02										
	CH12.00	589.125	587.405	587.305			1.820	1.680			
	CH15.20	589.095	587.655	587.555			1.540				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.5	1.100	1.500	0.825	15.345	16.170	
	(b) For Lift 1.5 to 3.0m	1			0.5	0.700	0.180	0.063	2.409	2.472	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.5	0.700	0.100	0.105	0.721	0.826	
	Item No. : 11 Transportation of earth Transportation charges							0.152	1.044	1.197	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			2.00			2.000	10.800	12.800	



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI
 and all other work of Construction, Erecting, Testing and Commissioning of Sewage Treatment
 Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banowadi, Siddharth
 Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erecting, Testing and Commission
 of Sewage pumping stations at Banowadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
 No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main
 G.P.I.P. line from Golwadi SPS to Nakshrawadi (Kanchanwadi) STP and Ward No.98 to
 STP for Kanchanwadi City.

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

UDR/GUH/SCMT/2014/184 Date 01.07.2014

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Azad Chowk to Bajrang Chowk 200mm DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						0.888				
	Deduction of 200mm dia pipe										
	pipe area	1.00	0.785	1.50	0.200	0.200	0.05				
	soling						0.00				
	PCC						0.00				
	Murrum bedding						0.11				
							0.15				
		Net Qty = A - B						0.74	16.71	17.45	



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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.

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

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Azad Chowk to Bajrang Chowk 400mm

9th R A BILL MEASUREMENTS

Branch Sewer at Azad Chowk to Bajrang Chowk

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	400mm Dia Branch at Azad Chowk to Bajrang Chowk										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	AC 10 to AC 11										
	CH263.60	591.571	588.530	588.330			3.241	3.326			
	CH284.90	592.040	588.830	588.630			3.410				
	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			18.100	2.000	0.400	14.480		16.170	30.650
	(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.000	0.000		2.472	2.472
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.100	2.000	0.900	32.580		0.000	32.580
	(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.700	20.272		0.000	20.272
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.100	2.000	0.200	7.240		0.000	7.240
	(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.800	23.168		0.000	23.168
	(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.326	7.081		0.000	7.081
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.100	1.200	0.200	4.344		0.826	5.170
	Item No. : 11 Transportation of earth Transportation charges							8.642		1.197	9.839
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000		0.000	20.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							104.821			
	Deduction										
	pipe area	1		0.785	18.100	0.550	0.550	4.30			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							4.34			
	Total = B							8.64			
								Net Qty = A - B			
	AC 11 to AC 12							96.18		17.445	113.624
	CH284.90	592.040	588.960	588.760			3.280	3.403			
	CH308.70	592.315	588.990	588.790			3.525				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			20.600	2.000	0.300	12.360		30.650	43.010
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.600	2.000	1.000	41.200		32.580	73.780
	(b) For Lift 1.5m to 3.0m	1			20.600	1.600	0.300	9.888		20.272	30.160



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Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.200	8.240		7.240	15.480
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	1.100	36.256		23.168	59.424
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	0.100	3.296		0.000	3.296
(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.403	9.962		0.000	9.962
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.600	1.200	0.200	4.944		5.170	10.114
Item No. : 11 Transportation of earth Transportation charges							9.836		9.839	19.674
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.5			22.500		20.000	42.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							121.202			
Deduction										
pipe area	1		0.785	20.600	0.550	0.550	4.89			
soling							0.00			
PCC							0.00			
Murum bedding							4.94			
Total = B							9.84			
							Net Qty = A - B		111.37	113.624 224.990
AC 12 to AC 13										
CH308.70		592.315	589.020	588.820			3.495			
CH332.50		592.650	589.180	588.980			3.670	3.583		
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			20.600	2.000	0.300	12.360		43.010	55.370
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(a) For Lift 0 to 1.5m	1			20.600	2.000	1.000	41.200		73.780	114.980
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	0.400	13.184		30.160	43.344
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.200	8.240		15.480	23.720
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	1.100	36.256		59.424	95.680
(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.583	14.412		7.081	21.492
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			20.600	1.200	0.200	4.944		10.114	15.058
Item No. : 11 Transportation of earth Transportation charges							9.836		19.674	29.510
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		42.500	65.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							125.652			
Deduction										
pipe area	1		0.785	20.600	0.550	0.550	4.89			
soling							0.00			
PCC							0.00			
Murum bedding							4.94			
Total = B							9.84			
							Net Qty = A - B		115.82	224.990 340.800
AC 13 to AC 14										



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Azad Chowk to Bajrang Chowk 400mm

CH332.50 *	592.650	589.200	589.000			3.650	3.685			
CH353.80	592.760	589.240	589.040			3.720				
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
(a) For Lift 0 to 1.5m	1			18.100	2.000	0.300	10.860		55.370 66.230	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			18.100	2.000	1.000	36.200		114.980 151.180	
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.500	14.480		43.344 57.824	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			18.100	2.000	0.200	7.240		23.720 30.960	
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	1.000	28.960		95.680 124.640	
(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.685	14.878		21.492 36.371	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.100	1.200	0.200	4.344		15.058 19.402	
Item No. : 11 Transportation of earth Transportation charges							8.642		29.510 38.152	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000		65.000 85.000	
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							112.618			
Deduction										
pipe area	1		0.785	18.100	0.550	0.550	4.30			
soling							0.00			
PCC							0.00			
Murum bedding							4.34			
Total = B							8.64			
	Net Qty = A - B						103.98		340.806	444.782
AC 14 to AC 15										
CH353.80	592.760	589.280	589.080			3.680	3.730			
CH380.10	592.900	589.320	589.120			3.780				
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			23.100	2.000	0.300	13.860		66.230 80.090	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			23.100	2.000	1.000	46.200		151.180 197.380	
(b) For Lift 1.5m to 3.0m	1			23.100	1.600	1.500	55.440		57.824 113.264	
(c) For Lift 3.0m to 4.5m	1			23.100	1.200	0.200	5.544		0.000 5.544	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			23.100	2.000	0.200	9.240		30.960 40.200	
(c) For Lift 3.0m to 4.5m	1			23.100	1.200	0.530	14.692		36.371 51.062	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		19.402 24.946	
Item No. : 11 Transportation of earth Transportation charges							11.029		38.152 49.182	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.0			25.000		85.000 110.000	
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							144.976			



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Ground Sewerage Collection system for Zone I to VI
 Surveying, Testing and Commissioning of Sewage Treatment
 at Nakshtrawadi (Kanchanwadi), Barcwadi, Siddharth
 at Airport, Construction, Erection, Testing and Commission
 at Barcwadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
 at Airport, Providing, lowering, laying jointing and testing rising main
 at Barcwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Azad Chowk to Bajrang Chowk 400mm

Deduction											
pipe area	1		0.785	23.100	0.550	0.550	5.49				
soling							0.00				
PCC							0.00				
Murum bedding							5.54				
Total = B							11.03				
			Net Qty = A - B					133.95	444.782	578.729	
AC 15 to AC 16											
CH380.10		592.900	589.350	589.150			3.750				
CH403.90		592.650	589.455	589.255			3.395		3.572		
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			20.600	2.000	0.400	16.480		80.090	96.570	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.950	39.140		197.380	236.520	
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	1.500	49.440		113.264	162.704	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.150	6.180		40.200	46.380	
(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.572	14.140		51.062	65.202	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.600	1.200	0.200	4.944		24.946	29.890	
Item No. : 11 Transportation of earth Transportation charges							9.836		49.182	59.017	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.5			22.500		110.000	132.500	
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A							125.380				
Deduction											
pipe area	1		0.785	20.600	0.550	0.550	4.89				
soling							0.00				
PCC							0.00				
Murum bedding							4.94				
Total = B							9.84				
			Net Qty = A - B					115.54	578.729	694.273	
AC 16 to AC 17											
CH403.90		592.650	589.470	589.270			3.380				
CH432.70		592.360	589.530	589.330			3.030		3.205		
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			25.600	2.000	0.500	25.600		96.570	122.170	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.800	40.960		236.520	277.480	
(b) For Lift 1.5m to 3.0m	1			25.600	1.600	1.200	49.152		162.704	211.856	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.200	10.240		46.380	56.620	
(b) For Lift 1.5m to 3.0m	1			25.600	1.600	0.300	12.288		124.640	136.928	
(c) For Lift 3.0m to 4.5m	1			25.600	1.200	0.205	6.298		65.202	71.500	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.600	1.200	0.200	6.144		29.890	36.034	



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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.

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Item No. : 11 Transportation of earth Transportation charges									12.223		59.017	71.240
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1				27.500				27.500		132.500	160.000
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A									144.538			
Deduction												
pipe area	1			0.785	25.600	0.550	0.550		6.08			
soling									0.00			
PCC									0.00			
Murum bedding									6.14			
Total = B									12.22			
Net Qty = A - B									132.31		694.273	826.587
AC 17 to AC 18												
CH432.70	592.360	589.575	589.375					2.985				
CH448.35	592.315	589.615	589.415					2.900	2.943			
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.												
(a) For Lift 0 to 1.5m	1				14.050	1.600	1.000		22.480		122.170	144.650
(b) For Lift 1.5m to 3.0m	1				14.050	1.200	1.000		16.860		2.472	19.332
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1				14.050	1.600	0.300		6.744		277.480	284.224
(b) For Lift 1.5m to 3.0m	1				14.050	1.200	0.100		1.686		211.856	213.542
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1				14.050	1.600	0.200		4.496		56.620	61.116
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.												
(b) For Lift 1.5m to 3.0m	1				14.050	1.200	0.343		5.783		3.296	9.079
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				14.050	1.200	0.200		3.372		36.034	39.406
Item No. : 11 Transportation of earth Transportation charges									6.708		71.240	77.949
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1				15.0				15.000		160.000	175.000
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A									58.049			
Deduction												
pipe area	1			0.785	14.050	0.550	0.550		3.34			
soling									0.00			
PCC									0.00			
Murum bedding									3.37			
Total = B									6.71			
Net Qty = A - B									51.34		826.587	877.928
CH448.35	592.315	589.615	589.415					2.900				
CH455.85	592.315	589.681	589.481					2.834	2.867			
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.												
(a) For Lift 0 to 1.5m	1				7.500	1.600	1.000		12.000		144.650	156.650
(b) For Lift 1.5m to 3.0m	1				7.500	1.200	1.000		9.000		19.332	28.332



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Azad Chowk to Bajrang Chowk 400mm

Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			7.500	1.600	0.300	3.600		284.224	287.824
(b) For Lift 1.5m to 3.0m	1			7.500	1.200	0.100	0.900		213.542	214.442
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			7.500	1.600	0.200	2.400		61.116	63.516
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(b) For Lift 1.5m to 3.0m	1			7.500	1.200	0.267	2.403		9.079	11.482
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.500	1.200	0.200	1.800		39.406	41.206
Item No. : 11 Transportation of earth Transportation charges							3.581		77.949	81.530
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.5			7.500		175.000	182.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							30.303			
Deduction										
pipe area	1		0.785	7.500	0.550	0.550	1.78			
soling							0.00			
PCC							0.00			
Murrum bedding							1.80			
Total = B							3.58			
Net Qty = A - B							26.72		877.928	904.650
CH455.85	592.315	589.681	589.481				2.834	2.817		
CH459.00	592.315	589.715	589.515				2.800			
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			1.550	1.600	0.900	2.232		156.650	158.882
(b) For Lift 1.5m to 3.0m	1			1.550	1.200	1.317	2.450		28.332	30.781
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			1.550	1.600	0.300	0.744		287.824	288.568
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			1.550	1.600	0.300	0.744		63.516	64.260
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.550	1.200	0.200	0.372		41.206	41.578
Item No. : 11 Transportation of earth Transportation charges							0.740		81.530	82.270
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			2.5			2.500		182.500	185.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							6.170			
Deduction										
pipe area	1		0.785	1.550	0.550	0.550	0.37			
soling							0.00			
PCC							0.00			
Murrum bedding							0.37			
Total = B							0.74			



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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.

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Azad Chowk to Bajrang Chowk 400mm

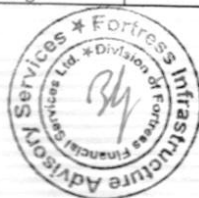
		Net Qty = A - B						5.43	904.650	910.080
AC 18 to AC 19										
CH459.00		592.315	589.875	589.675			2.640			
CH497.65		592.525	590.275	590.075			2.450	2.545		
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
(a) For Lift 0 to 1.5m		1		35.700	1.600	0.900	51.408		158.882	
(b) For Lift 1.5m to 3.0m		1		35.700	1.200	1.045	44.768		210.290	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									30.781	
(a) For Lift 0 to 1.5m		1		35.700	1.600	0.300	17.136		288.568	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									305.704	
(a) For Lift 0 to 1.5m		1		35.700	1.600	0.300	17.136		64.260	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)		1		35.700	1.200	0.200	8.568		41.578	
Item No. : 11 Transportation of earth Transportation charges							17.045		82.270	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia		1		37.5			37.500		185.000	
Item No 30 :- Refilling the excavated trenches ...									222.500	
Total Excavation= A							130.448			
Deduction										
pipe area		1	0.785	35.700	0.550	0.550	8.48			
soling							0.00			
PCC							0.00			
Murrum bedding							8.57			
Total = B							17.05			
							113.40			
AC 19 to AC 20		Net Qty = A - B						113.40	910.080	1023.482
CH497.65		592.525	590.325	590.125			2.400			
CH523.80		593.325	590.785	590.585			2.740	2.570		
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		23.200	1.600	0.900	33.408		210.290	
(b) For Lift 1.5m to 3.0m		1		23.200	1.200	1.070	29.789		243.698	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									75.549	
(a) For Lift 0 to 1.5m		1		23.200	1.600	0.300	11.136		305.704	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									316.840	
(a) For Lift 0 to 1.5m		1		23.200	1.600	0.300	11.136		81.396	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)		1		23.200	1.200	0.200	5.568		50.146	
Item No. : 11 Transportation of earth Transportation charges							11.077		99.315	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia		1		25.0			25.000		222.500	
Item No 30 :- Refilling the excavated trenches ...									247.500	
Total Excavation= A							85.469			
Deduction										



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Azad Chowk to Bajrang Chowk 400mm

pipe area	1		0.785	23.200	0.550	0.550	5.51		
soling							0.00		
PCC							0.00		
Murum bedding							5.57		
Total = B							11.08		
Net Qty = A - B							74.39	1023.482	1097.874
AC 20 to AC 21									
CH523.80	593.325	590.840	590.640				2.685	3.000	
CH545.10	594.240	591.125	590.925				3.315		
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			18.100	1.600	0.900	26.064		243.698 269.762
(b) For Lift 1.5m to 3.0m	1			18.100	1.200	1.500	32.580		105.338 137.918
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
(a) For Lift 0 to 1.5m	1			18.100	1.600	0.300	8.688		316.840 325.528
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
(a) For Lift 0 to 1.5m	1			18.100	1.600	0.300	8.688		92.532 101.220
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	1			18.100	1.200	0.200	4.344		55.714 60.058
Item No. : 11 Transportation of earth Transportation charges									
							8.642		110.392 119.034
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia									
	1			20.0			20.000		247.500 267.500
Item No 30 :- Refilling the excavated trenches ...									
Total Excavation= A							76.020		
Deduction									
pipe area	1		0.785	18.100	0.550	0.550	4.30		
soling							0.00		
PCC							0.00		
Murum bedding							4.34		
Total = B							8.64		
Net Qty = A - B							67.38	1097.874	1165.252
AC 21 to AC 22									
CH545.10	594.240	591.400	591.200				3.040	3.778	
CH583.90	596.115	591.800	591.600				4.515		
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			35.600	2.000	0.900	64.080		269.762 333.842
(b) For Lift 1.5m to 3.0m	1			35.600	1.600	1.500	85.440		137.918 223.358
(c) For Lift 3.0m to 4.5m	1			35.600	1.200	0.778	33.236		0.000 33.236
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
(a) For Lift 0 to 1.5m	1			35.600	2.000	0.300	21.360		325.528 346.888
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
(a) For Lift 0 to 1.5m	1			35.600	2.000	0.300	21.360		101.220 122.580
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	1			35.600	1.200	0.200	8.544		60.058 68.602
Item No. : 11 Transportation of earth Transportation charges									
							16.998		119.034 136.032



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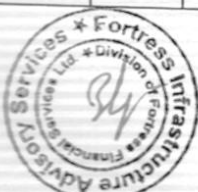
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport),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

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Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.5				37.500		267.500	305.000
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A								225.476			
Deduction											
pipe area	1			0.785	35.600	0.550	0.550	8.45			
soling								0.00			
PCC								0.00			
Murum bedding								8.54			
Total = B								17.00			
				Net Qty = A - B				208.48		1165.252	1373.730
AC 22 to AC 23											
CH583.90	596.115	591.835	591.635				4.480				
CH630.20	596.060	592.250	592.050				4.010	4.245			
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			43.100	2.000	0.900		77.580		333.842	411.422
(b) For Lift 1.5m to 3.0m	1			43.100	1.600	1.500		103.440		223.358	326.798
(c) For Lift 3.0m to 4.5m	1			43.100	1.200	1.245		64.391		33.236	97.628
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			43.100	2.000	0.300		25.860		346.888	372.748
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			43.100	2.000	0.300		25.860		122.580	148.440
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			43.100	1.200	0.200		10.344		68.602	78.946
Item No. : 11 Transportation of earth Transportation charges								20.579		136.032	156.611
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			45.0				45.000		305.000	350.000
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A								297.131			
Deduction											
pipe area	1			0.785	43.100	0.550	0.550	10.23			
soling								0.00			
PCC								0.00			
Murum bedding								10.34			
Total = B								20.58			
				Net Qty = A - B				276.55		1373.730	1650.283
AC 23 to AC 24											
CH630.20	596.060	592.305	592.105				3.955				
CH679.00	596.145	592.670	592.470				3.675	3.815			
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			45.600	2.000	0.900		82.080		411.422	493.502
(b) For Lift 1.5m to 3.0m	1			45.600	1.600	1.500		109.440		326.798	436.238
(c) For Lift 3.0m to 4.5m	1			45.600	1.200	0.815		44.597		97.628	142.224
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			45.600	2.000	0.300		27.360		372.748	400.108
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											



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... Sewerage Collection system for Zone I to VI
... (Kanchanwadi), Banewadi, Siddharth
... Construction, Erection, Testing and Commission
... Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
... Providing, lowering, laying jointing and testing rising main
... SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Azad Chowk to Bajrang Chowk 400mm

(a) For Lift 0 to 1.5m	1			45.600	2.000	0.300	27.360		148.440	175.800
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			45.600	1.200	0.200	10.944		78.946	89.890
Item No. : 11 Transportation of earth Transportation charges							21.772		156.611	178.383
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			47.5			47.500		350.000	397.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							290.837			
Deduction										
pipe area	1		0.785	45.600	0.550	0.550	10.83			
soling							0.00			
PCC							0.00			
Murrum bedding							10.94			
Total = B							21.77			
Net Qty = A - B								269.06	1650.283	1919.347
AC 24 to AC 25										
CH679.00	596.145	592.745	592.545				3.600			
CH707.80	596.240	592.830	592.630				3.610	3.605		
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.900	46.080		493.502	539.582
(b) For Lift 1.5m to 3.0m	1			25.600	1.600	1.500	61.440		436.238	497.678
(c) For Lift 3.0m to 4.5m	1			25.600	1.200	0.605	18.586		142.224	160.810
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.300	15.360		400.108	415.468
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.300	15.360		175.800	191.160
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			25.600	1.200	0.200	6.144		89.890	96.034
Item No. : 11 Transportation of earth Transportation charges							12.223		178.383	190.606
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.5			27.500		397.500	425.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							156.826			
Deduction										
pipe area	1		0.785	25.600	0.550	0.550	6.08			
soling							0.00			
PCC							0.00			
Murrum bedding							6.14			
Total = B							12.22			
Net Qty = A - B								144.60	1919.347	2063.950
AC 25 to AC 26										
CH707.80	596.240	592.855	592.655				3.585			
CH736.60	596.325	592.985	592.785				3.540	3.563		
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.800	40.960		539.582	580.542
(b) For Lift 1.5m to 3.0m	1			25.600	1.600	1.500	61.440		497.678	559.118
(c) For Lift 3.0m to 4.5m	1			25.600	1.200	0.563	17.295		160.810	178.105



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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 Nakhshrawadi (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 Nakhshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.300	15.360			415.468	430.828	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1			25.600	2.000	0.400	20.480			191.160	211.640	
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			25.600	1.200	0.200	6.144			96.034	102.178	
Item No. : 11 Transportation of earth Transportation charges							12.223			190.606	202.829	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.5			27.500			425.000	452.500	
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A							155.535					
Deduction												
pipe area	1		0.785	25.600	0.550	0.550	6.08					
soling							0.00					
PCC							0.00					
Murrum bedding							6.14					
Total = B							12.22					
							Net Qty = A - B			143.31	2063.950	2207.262
AC 26 to AC 27												
CH736.60		596.325	593.005	592.805			3.520					
CH760.40		596.435	593.105	592.905			3.530		3.525			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc												
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.900	37.080			580.542	617.622	
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	1.400	46.144			559.118	605.262	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.300	12.360			430.828	443.188	
(b) For Lift 1.5m to 3.0m	1			20.600	1.600	0.100	3.296			214.442	217.738	
(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.200	4.944			5.544	10.488	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1			20.600	2.000	0.300	12.360			211.640	224.000	
(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.325	8.034			71.500	79.534	
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			20.600	1.200	0.200	4.944			102.178	107.122	
Item No. : 11 Transportation of earth Transportation charges							9.836			202.829	212.665	
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.5			22.500			452.500	475.000	
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A							124.218					
Deduction												
pipe area	1		0.785	20.600	0.550	0.550	4.89					
soling							0.00					
PCC							0.00					
Murrum bedding							4.94					
Total = B							9.84					
							Net Qty = A - B			114.38	2207.262	2321.644
AC 27 to AC 28												
CH760.40		596.435	593.155	592.955			3.480					
CH781.70		596.615	593.325	593.125			3.490		3.485			



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Azad Chowk to Bajrang Chowk 400mm

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			18.100	2.000	0.900	32.580		617.622	650.202		
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	1.100	31.856		605.262	637.118		
(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.000	0.000		178.105	178.105		
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.												
(a) For Lift 0 to 1.5m	1			18.100	2.000	0.300	10.860		443.188	454.048		
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.400	11.584		217.738	229.322		
(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.000	0.000		10.488	10.488		
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(a) For Lift 0 to 1.5m	1			18.100	2.000	0.300	10.860		224.000	234.860		
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.000	0.000		136.928	136.928		
(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.485	10.534		79.534	90.068		
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.												
(b) For Lift 1.5m to 3.0m	1			18.100	1.600	0.000	0.000		11.482	11.482		
(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.000	0.000		9.962	9.962		
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.100	1.200	0.200	4.344		107.122	111.466		
Item No. 11 Transportation of earth Transportation charges							8.642		212.665	221.307		
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000		475.000	495.000		
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A							108.274					
Deduction												
pipe area	1			0.785	18.100	0.550	0.550	4.30				
soling								0.00				
PCC								0.00				
Murrum bedding								4.34				
Total = B								8.64				
Net Qty = A - B												
										99.63	2321.644	2421.277



Jay

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.

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Azad Chowk to Bajrang Chowk 500mm

9th R A BILL MEASURMENTS
Azad Chowk to Bajrang Chowk

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	500mm Dia-Azad Chowk										
	Width of Trench - For										
	Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	A 01 to A 02										
	CH0.00	591.120	589.775	589.575			1.55	1.383			
	CH5.60	591.255	590.235	590.035			1.22				
	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			5.00	1.300	1.383	8.990	650.202	659.191	
	(b) For Lift 1.5m to 3.0m	1			5.00	1.700	0.000	0.000	637.118	637.118	
	(c) For Lift 3.0m to 4.5m	1			5.00	1.300	0.000	0.000	178.105	178.105	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.00	2.100	0.000	0.000	454.048	454.048	
	(b) For Lift 1.5m to 3.0m	1			5.00	1.700	0.000	0.000	229.322	229.322	
	(c) For Lift 3.0m to 4.5m	1			5.00	1.300	0.000	0.000	10.488	10.488	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.00	2.100	0.000	0.000	234.860	234.860	
	(b) For Lift 1.5m to 3.0m	1			5.00	1.700	0.000	0.000	136.928	136.928	
	(c) For Lift 3.0m to 4.5m	1			5.00	1.300	0.000	0.000	90.068	90.068	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			5.00	1.700	0.000	0.000	11.482	11.482	
	(c) For Lift 3.0m to 4.5m	1			5.00	1.300	0.000	0.000	9.962	9.962	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.00	1.300	0.200	1.300	111.466	112.766	
	Item No. : 11 Transportation of earth Transportation charges including							2.958	221.307	224.265	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			5.00			5.000	0.000	5.000	
	Item No 30 :- Refilling the excavated trenches -										
	Total Excavation = A							8.990			
	Deduction										
	pipe area	1		0.785	5.00	0.650	0.650	1.66			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							1.30			
	Total = B							2.96			
	Net Qty = A - B							6.03	2421.277	2427.306	



Jay P