

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/D) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Navabpura 400mm RCC. 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		109.925	111.533
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.950	7.636		189.666	197.303
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804		16.881	17.684
	Item No. : 11 Transportation of earth Transportation charges							7.478		188.076	195.554
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.909			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.600	2.448			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.478			
	Net Qty = A - B							15.431		354.154	369.586
	NP 38										
	CH883.60	593.960	591.460	591.210			2.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.200	9.646		136.050	145.696
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.200	1.608		16.881	18.488
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		111.533	113.140
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.050	8.440		197.303	205.743
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804		17.684	18.488
	Item No. : 11 Transportation of earth Transportation charges							7.070		195.554	202.624
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.106			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.500	2.040			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.070			
	Net Qty = A - B							15.035		369.586	384.621
	NP 39										
	CH912.40	593.880	591.580	591.330			2.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.200	9.646		145.696	155.342
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.300	2.412		18.488	20.900
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		113.140	114.748
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.750	6.029		205.743	211.772
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804		18.488	19.292



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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

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Navabpura 400mm RCC. 0.45 X 0.45

9th RA BILL MEASUREMENTS (Excavation of Manhole)

BRANCH SEWER AT "NAVABPURA"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.45 X 0.45 m Manhole (upto a depth of 2.0m)-										
	Length & Width for Manhole=0.45+0.23+0.23+0.3+0.3=1.51m										
	NP 16.2										
	CH10.75	587.855	587.591	587.341			0.514				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.214	0.488	196.290	196.778	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.200	0.456	129.915	130.371	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.100	0.228	23.504	23.732	
	Item No. : 11 Transportation of earth Transportation charges							0.613	232.220	232.833	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.172			
	Deduction										
	Brick work	1			0.990	0.990	0.264	0.259			
	PCC	1			1.190	1.190	0.250	0.354			
	Soling	1			1.190	1.190	0.000	0.000			
								0.613			
								Net Qty = A - B	0.559	448.177	448.736
	NP 17.1										
	CH5.25	588.300	587.800	587.550			0.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.450	1.026	196.778	197.804	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.200	0.456	130.371	130.827	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.100	0.228	23.732	23.960	
	Item No. : 11 Transportation of earth Transportation charges							0.844	232.833	233.677	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.710			
	Deduction										
	Brick work	1			0.990	0.990	0.500	0.490			
	PCC	1			1.190	1.190	0.250	0.354			
	Soling	1			1.190	1.190	0.000	0.000			
								0.844			
								Net Qty = A - B	0.866	448.736	449.602
	NP 17.2										



Signature

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

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Navabpura 400mm RCC. 0.45 X 0.45

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH11.25	588.300	588.000	587.750			0.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.250	0.570		197.804	198.374
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.200	0.456		130.827	131.283
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.100	0.228		23.960	24.188
	Item No. : 11 Transportation of earth Transportation charges							0.648		233.677	234.325
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.254			
	Deduction										
	Brick work	1			0.990	0.990	0.300	0.294			
	PCC	1			1.190	1.190	0.250	0.354			
	Soling	1			1.190	1.190	0.000	0.000			
								0.648			
								0.606		449.602	450.208
	NP 18.1										
	CH5.25	588.525	588.080	587.830			0.695				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.395	0.901		198.374	199.275
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.200	0.456		131.283	131.739
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.100	0.228		24.188	24.417
	Item No. : 11 Transportation of earth Transportation charges							0.790		234.325	235.115
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.585			
	Deduction										
	Brick work	1			0.990	0.990	0.445	0.436			
	PCC	1			1.190	1.190	0.250	0.354			
	Soling	1			1.190	1.190	0.000	0.000			
								0.790			
								0.794		450.208	451.003
	NP 18.2										
	CH2.75	588.530	588.005	587.755			0.775				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.475	1.083		199.275	200.358
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.510	1.510	0.200	0.456		131.739	132.195



Be

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

Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

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Navabpura 400mm RCC. BBM Work

**9th R A BILL MEASURMENTS
BRANCH SEWER AT " NAVABPURA "**

Sr.No.	Description	Unit	No.	Length	Width	Height	Quantity
A	Extra item no.-4. a) Construction of Brick work for Manholes in C:M 1:6 for 0.45 X 0.45 m						
	NP 16.2	Cum	2	0.91	0.23	0.26	0.111
		Cum	2	0.45	0.23	0.26	0.055
	NP 17.1	Cum	2	0.91	0.23	0.50	0.209
		Cum	2	0.45	0.23	0.50	0.103
	NP 17.2	Cum	2	0.91	0.23	0.30	0.126
		Cum	2	0.45	0.23	0.30	0.062
	NP 18.1	Cum	2	0.91	0.23	0.45	0.186
		Cum	2	0.45	0.23	0.45	0.092
	NP 18.2	Cum	2	0.91	0.23	0.53	0.220
		Cum	2	0.45	0.23	0.53	0.109
	NP 18.3	Cum	2	0.91	0.23	0.41	0.170
		Cum	2	0.45	0.23	0.41	0.084
							1.526
B	Extra item no.-4. b) Internal Cement plaster 12mm Thk for 0.45 X 0.45 m						
	NP 16.2	Sqm	1	1.80		0.26	0.475
	NP 17.1	Sqm	1	1.80		0.50	0.900
	NP 17.2	Sqm	1	1.80		0.30	0.540
	NP 18.1	Sqm	1	1.80		0.45	0.801
	NP 18.2	Sqm	1	1.80		0.53	0.945
	NP 18.3	Sqm	1	1.80		0.41	0.729
							4.390
C	Extra item no.-4. c) External Cement plaster 20mm Thk for 0.45 X 0.45 m						
	NP 16.2	Sqm	1	3.64		0.26	0.961
	NP 17.1	Sqm	1	3.64		0.50	1.820
	NP 17.2	Sqm	1	3.64		0.30	1.092
	NP 18.1	Sqm	1	3.64		0.45	1.620
	NP 18.2	Sqm	1	3.64		0.53	1.911
	NP 18.3	Sqm	1	3.64		0.41	1.474
							8.878
D	Extra item no.-5. b) Providing & casting M 15 Grade Concrete						
	Benching for Manholes NP 16.2, NP 17.1, NP 17.2, NP 18.1, NP 18.2, NP 18.3	Cum	6	0.45	0.45	0.17	0.207
	Deduction	Cum	-6	0.79	0.03	0.45	-0.061
	PCC for Manholes NP 16.2, NP 17.1, NP 17.2, NP 18.1, NP 18.2, NP 18.3	Cum	6	1.19	1.19	0.25	2.124
							2.269
E	Extra item no.-Providing and fixing in position SFRC manhole cover with frame for rectangular manhole size 0.45m X 0.45m	Nos	6				6.000



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Navabpura 400mm RCC. MANHOLE

**9th RA BILL MEASUREMENTS
BRANCH SEWER AT " NAVABPURA "**

Item No. : 23 Providing and constructing on sewer BBM manhole 1.5 m dia at bottom and 0.5 m dia at top and up to a depth of 2 to 5.0 M

Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		222.50	NP 16	587.851	584.991	2.86	-2.14	-53.49	-106.990
2		238.80	NP 17	588.280	585.100	3.18	-1.82		
3		260.10	NP 18	588.530	585.430	3.10	-1.90		
4		303.90	NP 19	588.280	585.900	2.38	-2.62		
5		332.70	NP 20	588.530	586.230	2.30	-2.70		
6		371.50	NP 21	589.375	586.625	2.75	-2.25		
7		407.80	NP 22	590.485	587.635	2.85	-2.15		
8		434.10	NP 23	590.945	587.985	2.96	-2.04		
9		480.40	NP 24	591.095	588.115	2.98	-2.02		
10		499.20	NP 25	591.200	588.155	3.05	-1.95		
11		530.50	NP 26	591.940	588.300	3.64	-1.36		
12		561.80	NP 27	592.080	589.030	3.05	-1.95		
13		595.60	NP 28	592.660	589.490	3.17	-1.83		
14		626.90	NP 29	592.830	589.700	3.13	-1.87		
15		650.70	NP 30	592.950	590.290	2.66	-2.34		
16		682.00	NP 31	593.210	590.410	2.80	-2.20		
17		713.30	NP 32	593.530	590.530	3.00	-2.00		
18		744.60	NP 33	594.010	590.960	3.05	-1.95		
19		773.40	NP 34	594.170	591.070	3.10	-1.90		
20		799.70	NP 35	594.360	591.160	3.20	-1.80		
21		826.00	NP 36	594.260	591.260	3.00	-2.00		
22		854.80	NP 37	593.970	591.370	2.60	-2.40		
23		883.60	NP 38	593.960	591.460	2.50	-2.50		
24		912.40	NP 39	593.880	591.580	2.30	-2.70		
25		931.20	NP 40	593.560	591.660	1.90	-3.10		

Item No. : 21 Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2 M

Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		6.20	NP 15.1	587.745	585.945	1.80	-0.20	-1.100	-2.200
2		14.90	NP 15.2	587.515	586.065	1.45	-0.55		
3		18.80	NP 20.1	588.575	586.925	1.65	-0.35		

Extra Item. No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete

Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1		24.85	NP 20.2	588.475	587.075	1.40	-0.10	-1.760	-5.867
2		30.75	NP 20.3	588.575	587.675	0.90	-0.60		
3		39.15	NP 20.4	588.665	587.725	0.94	-0.56		
4		47.55	NP 20.5	588.875	587.875	1.00	-0.50		

Extra Item. No.03: Providing and constructing on sewer.BBM Square manhole 0.9m X 0.6m up to a depth of 1.5 M etc., complete

Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1		11.25	For Storm water line	588.510	587.210	1.30	-0.20	-0.200	-0.667



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Name of Authori

Date of Measurement	101
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Navabpura 400mm RCC. Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Nawabpura

SR NO	Description	MU/PG	ITEM 23		ITEM 30	EIRL 2		EIRL 3		EIRL 4		EIRL 5		EIRL 9.1		EIRL 9.2		EIRL 9.3		EIRL 9.4		EIRL 9.8		
			2-5	m		Full Rate	Rebate	Full Rate	Rebate	a	b	c	b	a	b	150mm	150mm	250mm	300mm	250mm	300mm	250mm	300mm	a (i) RR
1	For Pipe				2,790.17																			
2	For Manhole		25.00	(106.990)	452.644	4.000	(5.867)	1.000	(0.667)	1.526	4.390	8.878	2.269	39.200	39.200	37.500	28.750	37.500	28.750	37.500	28.750			6.000
	Total		25.000	-106.990	3242.810	4.000	-5.867	1.000	-0.667	1.526	4.390	8.878	2.269	39.200	39.200	37.500	28.750	37.500	28.750	37.500	28.750			6.000

CONTRACTOR
Kharan Infra Pvt. Ltd. * Registered
Audited & Supervisory

PMC
Fortress Infrastructure Advisory
Project Engineer

Fortress Infrastructure Advisory
Project Manager

Jr. Engineer

CLIENT
Dy. Engineer

Ex. Engineer

Last Measurement	Quantity	Total up to Date



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Afi. 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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Sanjay Nagar-04-400mm RCC MB-400mm

9th R A BILL MEASURMENTS
BRANCH SEWER 'D'- AT " SANJAY NAGAR-04"

Table with columns: Date, Particulars of work, DETAILS (No, L, B, D, GL, IL, EX.L), Content of area, Last measurement (Page, Quantity), TOTAL TO DATE. Rows include trench width calculations, excavation items (1, 2, 4, 7, 11, 17, 30), and summary totals.



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Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No	L	B	D	Page		Quantity			
		GL	IL	EX.L							
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.040	1.600	0.250	8.416		1.708	10.124
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.040	1.200	0.200	5.050		1.025	6.074
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							10.046		2.039	12.085
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		5.000	27.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							63.246			
	Deduction										
	pipe area	1		0.785	21.040	0.550	0.550	5.00			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.05			
	Total = B							10.05			
					Net Qty = A - B			53.20		9.439	62.639
	SNA2 TO SNA3										
	CH29.30	581.512	579.532	579.332			2.18	2.415			
	CH43.00	582.182	579.732	579.532			2.65				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.920	1.600	0.900	15.725		36.446	52.171
	(b) For Lift 1.5m to 3.0m	1			10.920	1.200	0.915	11.990		13.980	25.970
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.920	1.600	0.350	6.115		14.174	20.289
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.920	1.600	0.250	4.368		10.124	14.492
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.920	1.200	0.200	2.621		6.074	8.695
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.214		12.085	17.298
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		27.500	40.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							38.198			
	Deduction										
	pipe area	1		0.785	10.920	0.550	0.550	2.59			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.62			
	Total = B							5.21			
					Net Qty = A - B			32.98		62.639	95.624
	SNA3 TO SNA4										
	CH43.00	582.182	579.732	579.532			2.65				



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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 Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

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Sanjay Nagar-04-400mm RCC MB-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH56.70	582.577	579.832	579.632			2.95				
	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			10.800	1.600	0.900	15.552	52.171	67.723	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	1.298	16.816	25.970	42.786	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.350	6.048	20.289	26.337	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.250	4.320	14.492	18.812	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	1.200	0.200	2.592	8.695	11.287	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.157	17.298	22.455	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500	40.000	52.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							42.736			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.56			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.59			
	Total = B							5.16			
	Net Qty = A - B							37.58	95.624	133.203	
	SNA4 TO SNA5										
	CH56.70	582.577	580.082	579.882			2.70				
	CH70.40	582.972	580.182	579.982			2.99	2.843			
	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			10.800	1.600	0.900	15.552	67.723	83.275	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.700	9.072	42.786	51.858	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.350	6.048	26.337	32.385	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.400	5.184	0.000	5.184	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.250	4.320	18.812	23.132	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.243	3.149	0.000	3.149	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	1.200	0.200	2.592	11.287	13.879	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.157	22.455	27.612	



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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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Sanjay Nagar-04-400mm RCC MB-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		52.500	65.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							43.325			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.56			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.59			
	Total = B							5.16			
	Net Qty = A - B							38.17		133.203	171.371
	SNA5 TO SNA6										
	CH70.40	582.972	580.482	580.282				2.69	2.523		
	CH86.60	582.687	580.532	580.332				2.36			
	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			13.300	1.600	0.900	19.152		83.275	102.427
	(b) For Lift 1.5m to 3.0m	1			13.300	1.200	0.500	7.980		51.858	59.838
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.300	1.600	0.300	6.384		32.385	38.769
	(b) For Lift 1.5m to 3.0m	1			13.300	1.200	0.523	8.347		5.184	13.531
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.300	1.600	0.300	6.384		23.132	29.516
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.300	1.200	0.200	3.192		13.879	17.071
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							6.350		27.612	33.962
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		65.000	80.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							48.247			
	Deduction										
	pipe area	1		0.785	13.300	0.550	0.550	3.16			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.19			
	Total = B							6.35			
	Net Qty = A - B							41.90		171.371	213.268
	SNA6 TO SNA7										
	CH86.60	582.687	580.632	580.432				2.26	2.466		
	CH97.80	583.157	580.680	580.480				2.68			
	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			8.300	1.600	0.900	11.952		102.427	114.379
	(b) For Lift 1.5m to 3.0m				8.300	1.200	0.400	3.984		59.838	63.822



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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

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Sanjay Nagar-04-400mm RCC MB-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.300	3.984		38.769	42.753
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.566	5.637		13.531	19.168
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.300	3.984		29.516	33.500
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.300	1.200	0.200	1.992		17.071	19.063
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							3.963		33.962	37.925
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		80.000	90.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							29.541			
	Deduction										
	pipe area	1		0.785	8.300	0.550	0.550	1.97			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.99			
	Total = B							3.96			
	Net Qty = A - B							25.58		213.268	238.847
	SNA7 TO SNA8										
	CH97.80	583.157	580.780	580.580				2.58			
	CH109.00	583.707	580.857	580.657				3.05	2.814		
	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			8.300	1.600	0.900	11.952		114.379	126.331
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.600	5.976		63.822	69.798
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.300	3.984		42.753	46.737
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.714	7.111		19.168	26.280
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.300	3.984		33.500	37.484
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			8.300	1.200	0.200	1.992		19.063	21.055
	Item No. 11 Disposal of excavated							3.963		37.925	41.888
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		90.000	100.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							33.007			
	Deduction										
	pipe area	1		0.785	8.300	0.550	0.550	1.97			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.99			
	Total = B							3.96			



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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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Sanjay Nagar-04-400mm RCC MB-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
		Net Qty = A - B					29.04		238.847	267.891	
	SNA8 TO SNA9										
	CH109.00	583.707	581.057	580.857			2.85	2.845			
	CH122.70	583.797	581.157	580.957			2.84				
	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			10.800	1.600	0.900	15.552	126.331	141.883	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.600	7.776	69.798	77.574	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	46.737	51.921	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.745	9.655	26.280	35.935	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	37.484	42.668	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	1.200	0.200	2.592	21.055	23.647	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.157	41.888	47.044	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500	100.000	112.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							43.351			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.56			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.59			
	Total = B							5.16			
		Net Qty = A - B									
	SNA9 TO SNA10							38.19	267.891	306.086	
	CH122.70	583.797	581.300	581.100			2.70	2.749			
	CH136.40	584.002	581.402	581.202			2.80				
	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			10.800	1.600	0.900	15.552	141.883	157.435	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.500	6.480	77.574	84.054	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	51.921	57.105	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.749	9.707	35.935	45.642	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	42.668	47.852	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	1.200	0.200	2.592	23.647	26.239	



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

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Sanjay Nagar-04-400mm RCC MB-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	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			10.800	1.600	0.900	15.552	169.387	184.939	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.620	8.035	90.030	98.065	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	61.089	66.273	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	1.008	13.064	53.142	66.206	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.300	5.184	51.836	57.020	
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.000	0.000	3.149	3.149	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	1.200	0.200	2.592	28.231	30.823	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.157	56.164	61.321	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500	135.000	147.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							47.019			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.56			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.59			
	Total = B							5.16			
	Net Qty = A - B							41.86	372.469	414.331	



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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 Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage 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

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9th RA BILL MEASUREMENTS (Excavation of Manhole)
Sanjay Nagar-04 400mm RCC MH Excavation

BRANCH SEWER AT " SANJAY NAGAR-04"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.66m Area for Manhole=2.66*2.66=7.0756m SNA1										
	CH5.60	580.952	579.322	578.872			2.080				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.900	4.999			
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.580	3.222	0.000	4.999	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								0.000	3.222	
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.350	1.944		1.944	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.250	1.389	0.000	1.389	
	Item No. : 11 Transportation of earth Transportation charges							3.802	0.000	3.802	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.553			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.630	2.472			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.802			
								7.751	0.000	7.751	
	SNA2										
	CH29.30	581.512	579.532	579.082			2.430				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.900	4.999	4.999	9.998	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.930	5.166	3.222	8.387	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.350	1.944	1.944	3.888	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.250	1.389	1.389	2.777	
	Item No. : 11 Transportation of earth Transportation charges							4.333	3.802	8.134	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							13.497			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.980	3.003			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			



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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

Book No. :-
Page No. :-

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S of 6 Date	Particulars of work	Sanjay NagDETAILEDm RCC MH Excavation						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								10.951			
		Net Qty = A - B						14.731	30.480	45.211	
	SNA5										
	CH 70.40	582.972	580.182	579.732			3.240				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235	24.467	31.702	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.740	13.987	33.266	47.253	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813	9.515	12.328	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.250	2.010	6.796	8.806	
	Item No. : 11 Transportation of earth Transportation charges							11.135	28.833	39.968	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.044			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.240	5.060			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								11.135			
		Net Qty = A - B						14.910	45.211	60.121	
	SNA6										
	CH 86.60	582.687	580.532	580.082			2.605				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235	31.702	38.936	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.400	3.215	47.253	50.468	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	12.328	14.740	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.705	5.667	0.000	5.667	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	8.806	11.217	
	Item No. : 11 Transportation of earth Transportation charges							8.544	39.968	48.512	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.940			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.605	2.469			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								8.544			



Signature

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), Banowadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banowadi, Siddharth Garden, Padegaon, Gohwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

Book No. 063

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# of 6 Date	Particulars of work	Sanjay Nagarm RCC MH Excavation						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						12.396		60.121	72.517
	SNA7										
	CH 97.80	583.157	580.680	580.230			2.927				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235		38.936	46.171
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.600	4.823		50.468	55.291
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		14.740	17.151
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.827	6.648		5.667	12.315
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		11.217	13.629
	Item No. : 11 Transportation of earth Transportation charges							9.858		48.512	58.369
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.528			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.927	3.783			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								9.858			
		Net Qty = A - B						13.671		72.517	86.188
	SNA8										
	CH 109.00	583.707	580.857	580.407			3.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235		46.171	53.405
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.600	4.823		55.291	60.114
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		17.151	19.563
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.900	7.235		12.315	19.549
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.300	2.412		0.000	2.412
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		13.629	16.041
	Item No. : 11 Transportation of earth Transportation charges							11.380		58.369	69.749
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.527			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.300	5.305			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								11.380			
		Net Qty = A - B						15.147		86.188	101.335
	SNA9										
	CH 122.70	583.797	581.157	580.707			3.090				



Signature

S of 6 Date	Particulars of work	Sanjay Nag DETAILS in RCC MH Excavation						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235		67.874	75.109
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.600	4.823		68.956	73.779
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		24.386	26.797
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.900	7.235		34.822	42.057
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.310	2.492		3.537	6.029
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		20.864	23.275
	Item No. : 11 Transportation of earth Transportation charges							11.421		90.631	102.052
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.607			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.310	5.346			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								11.421			
	Net Qty = A - B							15.187		129.808	144.995
	SNA12										
	CH 161.30	584.652	581.657	581.207			3.445				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235		75.109	82.343
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.620	4.984		73.779	78.763
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		26.797	29.209
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.880	7.074		42.057	49.131
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.445	3.577		6.029	9.606
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		23.275	25.687
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000		0.000	0.000
	Item No. : 11 Transportation of earth Transportation charges							11.971		102.052	114.023
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.692			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.445	5.897			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.200	1.045			
								11.971			
	Net Qty = A - B							15.721		144.995	160.716



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Name of work:- Development of Underground Sewerage Collection system for Zone 1 to V1 and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanywadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage 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 (Kanchanywadi) STP and Ward No.98 to STP for

Name of Author

Date of Measurement

Sanjay Nagar-04-400mm RCC Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Of Sewer " SANJAY NAGAR-04 "

SIR NO	Description	ME/PG	ITEM 1		ITEM 2			ITEM 4		ITEM 7	ITEM 11	ITEM 17 400mm	ITEM 21 upto 2 m	ITEM 21.1 Rebate	ITEM 30	EIRL 2.a	
			0-1.5	1.5-3.0	0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0							Full Rate	Rebate
1	For Pipe		184.959	98.065	66.273	66.206	57.020	3.149	30.823	61.321	147.500				414.331		
2	For Manhole		82.343	78.763	29.209	49.131	25.687	-	-	114.023		2.000	(0.780)		160.716	10.000	(46.876)
	Total		267.283	176.828	95.482	115.336	82.707	3.149	30.823	175.344	147.500	2.000	(0.780)	575.047	10.000	(46.876)	

CONTRACTOR

 Krishna Infra Pvt. Ltd.
 Authorized Signatory

PMC

 Fortress Infrastructure Services Pvt. Ltd.
 Project Engineer


PMC

 Fortress Infrastructure Services Pvt. Ltd.
 Project Engineer

Jr. Engineer


CLIENT

 Dy. Engineer

Ex. Engineer


of Arrears	Last Measurement		Total up to Date
	Page No.	Quantity	
7	8	9	10

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 Aamnabad City.

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Nawabpura Mondha Road, Rajabazar, MB-450mm

9th R A BILL MEASUREMENTS
BRANCH SEWER AT " NAWABPURA, MONDHA ROAD, RAJABAZAR "

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.45+0.15+0.15+0.5=1.25m										
	From Bottom Lift 1.50m-3.00m- 0.45+0.15+0.15+0.5+0.4=1.65m										
	From Bottom Lift 3.00m-4.50m- 0.45+0.15+0.15+0.5+0.4+0.4=2.05m										
	NP1.13 TO NP1.12										
	CH0.00	581.502	579.932	579.732			1.77	1.808			
	CH6.20	581.667	580.022	579.822			1.85				
	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			3.54	1.250	1.050	4.646	0.000	4.646	
	(b) For Lift 1.5m to 3.0m	1			3.54	1.650	0.308	1.796	0.000	1.796	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.54	1.250	0.150	0.664	0.000	0.664	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.54	1.250	0.300	1.328	0.000	1.328	
	Item No. 7 - Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.54	1.250	0.200	0.885	0.000	0.885	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							1.885	0.000	1.885	
	Item No.17 (b) - Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			5.0			5.000	0.000	5.000	
	Item No 30 - Refilling the excavated trenches ...										
	Total Excavation = A							8.434			
	Deduction										
	pipe area	1		0.785	3.54	0.600	0.600	1.00			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.89			
	Total = B							1.89			
					Net Qty = A - B						
								6.55	0.000	6.548	
	NP1.12 TO NP1.11										
	CH6.20	581.667	580.022	579.822			1.85	1.878			
	CH24.90	582.002	580.292	580.092			1.91				
	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			16.04	1.250	1.050	21.053	4.646	25.699	
	(b) For Lift 1.5m to 3.0m	1			16.04	1.650	0.377	9.991	1.796	11.787	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.04	1.250	0.150	3.008	0.664	3.671	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.04	1.250	0.300	6.015	1.328	7.343	



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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 STP for Aurangabad City.

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Nawbura Mondha Road, Rajabazar, MB-450mm

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Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH74.75	582.682	580.922	580.722			1.96				
	CH88.45	582.822	581.032	580.832			1.99				
	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			11.04	1.250	0.750	10.350	80.653	91.003	
	(b) For Lift 1.5m to 3.0m	1			11.04	1.650	0.475	8.653	42.702	51.355	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.04	1.250	0.450	6.210	11.522	17.732	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.04	1.250	0.300	4.140	23.044	27.184	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (hedding)	1			11.04	1.250	0.200	2.760	15.363	18.123	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							5.880	32.728	38.608	
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			12.5			12.500	68.750	81.250	
	Item No 30 :- Refilling the excavated trenches ...							29.353			
	Total Excavation = A										
	Deduction	1			0.785	11.04	0.600	0.600	3.12		
	pipe area							0.00			
	soling							0.00			
	PCC							2.76			
	Murum bedding							5.88			
	Total = B							23.47	125.192	148.665	
					Net Qty = A - B						
	NP1.7 TO NP1.6						1.99	1.995			
	CH88.45	582.822	581.032	580.832			2.00				
	CH99.65	582.872	581.072	580.872							
	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			8.54	1.250	0.750	8.006	91.003	99.009	
	(b) For Lift 1.5m to 3.0m	1			8.54	1.650	0.495	6.975	51.355	58.330	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.450	4.804	17.732	22.536	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.300	3.203	27.184	30.386	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			8.54	1.250	0.200	2.135	18.123	20.258	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							4.548	38.608	43.157	
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			10.0			10.000	81.250	91.250	
	Item No 30 :- Refilling the excavated trenches ...							22.988			
	Total Excavation = A										



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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.

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

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Nawbpura Mondha Road, Rajabazar, MB-450mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Deduction										
	pipe area	1		0.785	8.54	0.600	0.600	2.41			
	soling							0.00			
	PCC							0.00			
	Murram bedding							2.14			
	Total = B							4.55			
				Net Qty = A - B				18.44		148.665	167.10
	NP1.6 TO NP1.5										
	CH99.65	582.872	581.072	580.872			2.00	2.035			
	CH103.35	582.952	581.082	580.882			2.07				
	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			1.04	1.250	0.750	0.975	99.009	99.98	
	(b) For Lift 1.5m to 3.0m	1			1.04	1.650	0.535	0.918	58.330	59.24	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.04	1.250	0.450	0.585	22.536	23.12	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.04	1.250	0.300	0.390	30.386	30.77	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			1.04	1.250	0.200	0.260	20.258	20.51	
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							0.554	43.157	43.71	
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			2.5			2.500	91.250	93.75	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							2.868			
	Deduction										
	pipe area	1		0.785	1.04	0.600	0.600	0.29			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.26			
	Total = B							0.55			
				Net Qty = A - B				2.31		167.104	169.41
	NP1.5 TO NP1.4										
	CH103.35	582.952	581.082	580.882			2.07	2.175			
	CH114.55	583.182	581.102	580.902			2.28				
	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			8.54	1.250	0.700	7.473	99.984	107.45	
	(b) For Lift 1.5m to 3.0m	1			8.54	1.650	0.675	9.511	59.248	68.75	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.450	4.804	23.121	27.92	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.350	3.736	30.776	34.51	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			8.54	1.250	0.200	2.135	20.518	22.65	



Signature

Name of work:- Development of Sewage Treatment Plant for Zone 1 to V1 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banerwadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banerwadi, 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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Nawbpura Mondha Road, Rajabazar. MB-450mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EXL	L	B	D		Page	Quantity	
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							4.548		43.710	48.259
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			10.0			10.000		93.750	103.750
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							25.524			
	Deduction										
	pipe area	1		0.785	8.54	0.600	0.600	2.41			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.14			
	Total = B							4.55			
				Net Qty = A - B				20.98		169.418	190.394
	NP1.4 TO NP1.3										
	CH114.55	583.182	581.102	580.902			2.28	2.315			
	CH130.75	583.332	581.182	580.982			2.35				
	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			13.54	1.250	0.725	12.271		107.457	119.728
	(b) For Lift 1.5m to 3.0m	1			13.54	1.650	0.815	18.208		68.759	86.967
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.54	1.250	0.450	7.616		27.924	35.54
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.54	1.250	0.325	5.501		34.513	40.01
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			13.54	1.250	0.200	3.385		22.653	26.03
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							7.211		48.259	55.4
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			15.0			15.000		103.750	118.7
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							43.595			
	Deduction										
	pipe area	1		0.785	13.54	0.600	0.600	3.83			
	soling							0.00			
	PCC							3.39			
	Murum bedding							7.21			
	Total = B							36.38		190.394	22
				Net Qty = A - B							
	NP1.3 TO NP1.2										
	CH130.75	583.332	581.182	580.982			2.35	2.360			
	CH141.95	583.392	581.222	581.022			2.37				
	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			8.54	1.250	1.050	11.209		119.728	1
	(b) For Lift 1.5m to 3.0m	1			8.54	1.650	0.860	12.118		86.967	1
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



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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

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Nawbura Mondha Road, Rajabazar, MB-450mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.150	1.601		35.541	37
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.300	3.203		40.013	43
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			8.54	1.250	0.200	2.135		26.038	28
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							4.548		55.470	60
	Item No.17 (b) - Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			10.0			10.000		118.750	128
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							28.131			
	Deduction										
	pipe area	1		0.785	8.54	0.600	0.600	2.41			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							2.14			
	Total = B							4.55			
					Net Qty = A - B			23.58		226.778	250
	NP1.2 TO NP1.1										
	CH141.95	583.392	581.222	581.022			2.37	2.445			
	CH153.15	583.562	581.242	581.042			2.52				
	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			8.54	1.250	1.050	11.209		130.936	142
	(b) For Lift 1.5m to 3.0m	1			8.54	1.650	0.945	13.316		99.085	112
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.150	1.601		37.142	38
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.54	1.250	0.300	3.203		43.216	46
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			8.54	1.250	0.200	2.135		28.173	30
	Item No. 11 Disposal of excavated material including loading the excavated material in trucks / tractors							4.548		60.019	64
	Item No.17 (b) - Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			10.0			10.000		128.750	138
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							29.328			
	Deduction										
	pipe area	1		0.785	8.54	0.600	0.600	2.41			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							2.14			
	Total = B							4.55			
					Net Qty = A - B			24.78		250.360	275
	NP1.1 TO NP1										
	CH153.15	583.562	581.242	581.042			2.52	2.487			
	CH169.35	583.555	581.302	581.102			2.45				



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