



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 154
Page No. :-

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

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

12th RA Bill Measurements Pipe Branch Sewer at Azad Chowk to Central Naka

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC PIPE - 300 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.300+0.08+0.08+0.5=0.96m										
	For Lift 1.5 to 3.00m- 0.300+0.08+0.08+0.5+0.4=1.36m										
	For Lift 3.0 to 4.5m- 0.300+0.5+0.08+0.08+0.4+0.4=1.76m										
	KGM 23.15 to KGM 23.15.1	Branch line from Azad Chowk to Central Naka (AC 8.9) For Nalla Calvert Use Only Pipe Supply									
	CH0.00	597.480	596.680	596.580			0.900				
	CH31.00	597.990	597.592	597.492			0.498	0.699			
	Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia	1			30.000			30.000		30.000	



RE J. Jayraj



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Contractor: Infrastructure Pvt Ltd & GFCPL (Joint Venture)

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Azad Chowk to Central Naka R 400mm

12th RA BILL MEASUREMENTS

Branch Sewer at Azad Chowk to Central Naka

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 Central Naka										
	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										
25-Jun-16	AC 8 to AC 8.1	Branch line from Azad Chowk to Gulshan Mahal (CH-193.80, MH No. AC 08)									
	CH0.00	591.210	588.600	588.400			2.810	3.210			
	CH20.75	592.100	588.690	588.490			3.610				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	2.000	0.300	11.490	0.000	11.490	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	2.000	0.900	34.470	0.000	34.470	
	(b) For Lift 1.5m to 3.0m	1			19.150	1.600	1.100	33.704	0.000	33.704	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	2.000	0.300	11.490	0.000	11.490	
	(b) For Lift 1.5m to 3.0m	1			19.150	1.600	0.400	12.256	0.000	12.256	
	(c) For Lift 3.0m to 4.5m	1			19.150	1.200	0.210	4.826	0.000	4.826	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.150	1.200	0.200	4.596	0.000	4.596	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							9.143	0.000	9.143	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000	0.000	20.000	
	Item No 30 :- Refilling the excavated trenches ...							108.236			
	Total Excavation= A										
	Deduction										
	pipe area	1		0.785	19.150	0.550	0.550	4.547			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							4.596			
	Total = B							9.143			
								99.092	0.000	99.092	
29-Jun-16	CH20.75	592.100	588.690	588.490			3.610	3.685			
	CH39.00	592.350	588.790	588.590			3.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.650	2.000	0.300	9.990	11.490	21.480	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.650	2.000	1.000	33.300	34.470	67.770	



Signature and date: 20/06/19



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

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Azad Chowk to Central Naka R 400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(b) For Lift 1.5m to 3.0m	1			16.650	1.600	0.900	23.976		33.704	57.680
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.650	2.000	0.200	6.660		11.490	18.150
	(b) For Lift 1.5m to 3.0m	1			16.650	1.600	0.600	15.984		12.256	28.240
	(c) For Lift 3.0m to 4.5m	1			16.650	1.200	0.200	3.996		4.826	8.822
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			16.650	1.200	0.485	9.690		0.000	9.690
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.650	1.200	0.200	3.996		4.596	8.592
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.950		9.143	17.093
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		20.000	37.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							103.596			
	Deduction										
	pipe area	1		0.785	16.650	0.550	0.550	3.954			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							3.996			
	Total = B							7.950			
								Net Qty = A - B		99.092	194.739
2-Jul-16	AC 8.1 to AC 8.2							95.647			
	CH39.00	592.350	589.390	589.190			3.160	3.555			
	CH54.60	593.340	589.590	589.390			3.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	0.100	2.800		21.480	24.280
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	1.200	33.600		67.770	101.370
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.500	11.200		57.680	68.880
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	0.200	5.600		18.150	23.750
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.500	11.200		28.240	39.440
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.500	11.200		0.000	11.200
	(c) For Lift 3.0m to 4.5m	1			14.000	1.200	0.555	9.324		9.690	19.014
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.000	1.200	0.200	3.360		8.592	11.952
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.684		17.093	23.779



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

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Azad Chowk to Central Naka R 400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		37.500	52.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation=A										
	Deduction							84.924			
	pipe area	1		0.785	14.000	0.550	0.550	3.324			
	soling							0.000			
	PCC							0.000			
	Murum bedding							3.360			
	Total = B							6.684			
4-Jun-16								Net Qty = A - B	78.240	194.739	272.978
	CH54.60	593.340	589.590	589.390			3.950				
	CH70.20	593.780	589.815	589.615			4.165	4.058			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	0.100	2.800		24.280	27.080
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	1.200	33.600		101.370	134.970
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.555	12.432		68.880	81.312
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete. ←										
	(a) For Lift 0 to 1.5m	1			14.000	2.000	0.200	5.600		23.750	29.350
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.500	11.200		39.440	50.640
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.000	1.600	0.445	9.968		11.200	21.168
	(c) For Lift 3.0m to 4.5m	1			14.000	1.200	1.058	17.774		19.014	36.789
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.000	1.200	0.200	3.360		11.952	15.312
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.684		23.778	30.462
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		52.500	67.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							93.374			
	Deduction										
	pipe area	1		0.785	14.000	0.550	0.550	3.324			
	soling							0.000			
	PCC							0.000			
	Murum bedding							3.360			
	Total = B							6.684			
								Net Qty = A - B	86.690	272.978	359.668
7-Jul-16	AC 8.2 to AC 8.3										
	CH70.20	593.780	590.415	590.215			3.565	3.508			
	CH85.95	594.000	590.750	590.550			3.450				



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Azad Chowk to Central Naka R 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 murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.150	2.000	0.100	2.830		27.080	29.910
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.150	2.000	0.500	14.150		134.970	149.120
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.150	2.000	0.600	16.980		29.350	46.330
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			14.150	2.000	0.300	8.490		0.000	8.490
	(b) For Lift 1.5m to 3.0m	1			14.150	1.600	1.500	33.960		21.168	55.128
	(c) For Lift 3.0m to 4.5m	1			14.150	1.200	0.508	8.626		36.789	45.415
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.150	1.200	0.200	3.396		15.312	18.708
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.756		30.462	37.218
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		67.500	82.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							85.036			
	Deduction										
	pipe area	1		0.785	14.150	0.550	0.550	3.360			
	soling							0.000			
	PCC							0.000			
	Murum bedding							3.396			
	Total = B							6.756			
								NetQty = A - B		78.280	
10-Jul-16										359.668	437.948
	CH85.95	594.000	590.750	590.550				3.450			
	CH99.20	594.280	591.000	590.800				3.480	3.465		
	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			11.650	2.000	0.100	2.330		29.910	32.240
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.650	2.000	0.500	11.650		149.120	160.770
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.650	2.000	0.600	13.980		46.330	60.310
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			11.650	2.000	0.300	6.990		8.490	15.480
	(b) For Lift 1.5m to 3.0m	1			11.650	1.600	1.500	27.960		55.128	83.088
	(c) For Lift 3.0m to 4.5m	1			11.650	1.200	0.465	6.501		45.415	51.915



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S. S. Jyotsna



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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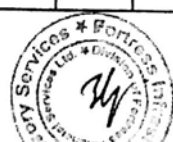
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport),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

Azad Chowk to Central Naka R 400mm

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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	EXL							
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	1.600	0.700	21.448		48.088	69.536
	(b) For Lift 1.5m to 3.0m	1			19.150	1.200	1.275	29.300		22.753	52.053
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	1.600	0.400	12.256		169.826	182.082
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.150	1.600	0.400	12.256		69.366	81.622
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.150	1.200	0.200	4.596		24.900	29.496
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							9.143		49.537	58.680
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		110.000	130.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							75.260			
	Deduction										
	pipe area	1		0.785	19.150	0.550	0.550	4.547		0.000	
	soling							0.000			
	PCC							4.596			
	Murum bedding							9.143			
	Total = B										
								66.116		551.754	617.870
16-Jul-16	AC 8.4 to AC 8.5										
	CH135.70	594.400	591.950	591.750				2.650			
	CH166.90	594.400	592.000	591.800				2.600			
	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			28.000	1.600	1.000	44.800		69.536	114.336
	(b) For Lift 1.5m to 3.0m	1			28.000	1.200	1.125	37.800		52.053	89.853
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			28.000	1.600	0.300	13.440		182.082	195.522
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			28.000	1.600	0.200	8.960		81.622	90.582
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			28.000	1.200	0.200	6.720		29.496	36.216
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							13.369		58.680	72.049
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000		130.000	160.000
	Item No 30 :- Refilling the excavated trenches ...										



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Book No. :-
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Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

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Azad Chowk to Central Naka R 400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Total Excavation=A									105.000	
	Deduction										
	pipe area	1		0.785	28.000	0.550	0.550			6.649	
	soling									0.000	
	PCC									0.000	
	Murum bedding									6.720	
	Total = B									13.369	
										Net Qty = A - B	
										91.631	
										617.870	
										709.501	
18-Jul-16	AC 8.5 to AC 8.6										
	CH166.90	594.400	592.200	592.000			2.400			2.210	
	CH182.50	594.100	592.280	592.080			2.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.400			9.046	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.900			20.354	
	(b) For Lift 1.5m to 3.0m	1			14.135	1.200	0.300			5.089	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.200			4.523	
	(b) For Lift 1.5m to 3.0m	1			14.135	1.200	0.410			6.954	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.135	1.200	0.200			3.392	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading									6.749	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000					15.000	
	Item No 30 :- Refilling the excavated trenches ...									45.967	
	Total Excavation= A										
	Deduction	1		0.785	14.135	0.550	0.550			3.357	
	pipe area									0.000	
	soling									0.000	
	PCC									3.392	
	Murum bedding									6.749	
	Total = B									39.218	
										Net Qty = A - B	
										91.631	
										617.870	
										709.501	
19-Jul-16	CH182.50	594.100	592.280	592.080			2.020			2.090	
	CH198.10	594.300	592.340	592.140			2.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.300			6.785	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.700			15.831	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.135	1.600	0.300			6.785	

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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- 165

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

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Azad Chowk to Central Naka R 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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			28.540	1.200	0.200	6.850		64.459	71.309
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							13.627		128.237	141.864
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000		282.500	312.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							97.607			
	Deduction										
	pipe area	1		0.785	28.540	0.550	0.550	6.777			
	soling							0.000			
	PCC							0.000			
	Murum bedding							6.850			
	Total = B							13.627			
								NetQty = A - B			
26-Jul-16	AC 8.9 to AC 8.10							83.980		1045.244	1129.224
	CH324.30	596.460	594.285	594.085				2.375			
	CH347.55	596.560	594.385	594.185				2.375	2.375		
	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			21.920	1.600	1.000	35.072		267.122	302.194
	(b) For Lift 1.5m to 3.0m	1			21.920	1.200	0.875	23.016		118.964	141.980
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.920	1.600	0.300	10.522		332.736	343.258
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.920	1.600	0.200	7.014		146.987	154.001
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.920	1.200	0.200	5.261		71.309	76.570
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							10.466		141.864	152.330
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		312.500	335.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							75.624			
	Deduction										
	pipe area	1		0.785	21.920	0.550	0.550	5.205			
	soling							0.000			
	PCC							5.261			
	Murum bedding							10.466			
	Total = B							65.158		1129.224	1194.382
								NetQty = A - B			
27-Jul-16		596.560	594.385	594.185				2.375	2.385		
	CH347.55	596.680	594.485	594.285				2.395			
	CH378.30										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

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Azad Chowk to Central Naka R 400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
3-Aug-16	AC 8.11 to AC 8.12										
	CH411.05	597.210	595.885	595.685							
	CH429.85	597.890	596.085	595.885			1.525	1.765			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.							2.005			
	(a) For Lift 0 to 1.5m	1			16.140	1.600	1.500	38.736		426.189	464.925
	(b) For Lift 1.5m to 3.0m	1			16.140	1.200	0.265	5.133		182.612	187.744
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.140	1.200	0.200	3.874		90.852	94.726
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.706		180.743	188.450
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		396.250	413.750
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							43.869			
	Deduction										
	pipe area	1		0.785	16.140	0.550	0.550	3.833			
	soling							0.000			
	PCC							0.000			
	Murum bedding							3.874			
	Total = B							7.706			
								Net Qty = A - B		36.162	
										1349.425	1385.587
5-Aug-16	AC 8.12 to AC 8.13										
	CH429.85	597.890	596.285	596.085			1.805	1.853			
	CH438.65	597.990	596.290	596.090			1.900				
	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			6.140	1.600	1.500	14.736		464.925	479.661
	(b) For Lift 1.5m to 3.0m	1			6.140	1.200	0.353	2.601		187.744	190.345
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.140	1.600	0.000	0.000		357.380	357.380
	(b) For Lift 1.5m to 3.0m	1			6.140	1.200	0.000	0.000		167.347	167.347
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.140	1.600	0.000	0.000		158.708	158.708
	(b) For Lift 1.5m to 3.0m	1			6.140	1.200	0.000	0.000		78.627	78.627
	(c) For Lift 3.0m to 4.5m	1			6.140	1.200	0.000	0.000		8.822	8.822
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			6.140	1.600	0.000	0.000		15.480	15.480
	(b) For Lift 1.5m to 3.0m	1			6.140	1.200	0.000	0.000		83.088	83.088
	(c) For Lift 3.0m to 4.5m	1			6.140	1.200	0.000	0.000		51.915	51.915
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.140	1.200	0.200	1.474		94.726	96.199
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.932		188.450	191.381



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AURANGABAD MUNICIPAL CORPORATION

(From No.52)

Measurement Book

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

Book No. :- 163
Page No. :-

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

14 of 14

Azad Chowk to Central Naka R 400mm

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.500			7.500		413.750	421.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction							17.337			
	pipe area	1									
	soling			0.785	6.140	0.550	0.550	1.458			
	PCC							0.000			
	Murum bedding							0.000			
	Total = B							1.474			
								2.932			
								Net Qty = A - B			
								14.405		1385.587	1399.992



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-
Page No. :- 167

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

1 of 4

Azad Chowk to Central Naka R 1.5m MH Excavation

12th RA BILL MEASUREMENTS

Branch Sewer at Azad Chowk to Central Naka

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 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m										
	Breadth for Manhole=3.2*3.2=10.24m										
	ACB.1										
	CH39.00	592.350	588.790	588.540			3.810				
	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	0.300	2.412	0.000	2.412	
	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	1.000	8.038	0.000	8.038	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.900	7.235	0.000	7.235	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	0.000	1.608	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.600	4.823	0.000	4.823	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.200	1.608	0.000	1.608	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.610	4.903	0.000	4.903	
	Item No. : 11 Transportation of earth Transportation charges							11.396	0.000	11.396	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.626			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.560	6.366			
		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			
								11.396			
	Net Qty = A - B							19.231	0.000	19.231	
	ACB.2										
	CH70.20	593.780	589.815	589.565			4.215				
	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	0.100	0.804	2.412	3.215	
	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	1.200	9.646	8.038	17.684	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.555	4.461	7.235	11.696	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	1.608	3.215	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.500	4.019	4.823	8.842	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.445	3.577	0.000	3.577	



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AURANGABAD MUNICIPAL CORPORATION

(From No.52)

Measurement Book

Book No. :- 170

Page No. :-

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salmi 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 (RP) DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to IP for Aurangabad City.

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

2 of 4

Azad Chowk to Central Naka R 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							
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.215	9.767		4.903	14.670
	Item No. : 11 Transportation of earth Transportation charges							13.048		11.396	24.444
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							33.882			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.965	8.019			
		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			
								13.048			
								Net Qty = A - B		19.231	40.064
	AC B.3										
	CH99.20	594.280	591.000	590.750			3.530				
	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	0.100	0.804		3.215	4.019
	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	0.500	4.019		17.684	21.704
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823		3.215	8.038
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		0.000	2.412
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		3.577	15.635
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.530	4.260		14.670	18.930
	Item No. : 11 Transportation of earth Transportation charges							10.253		24.444	34.697
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.376			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.280	5.223			
		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			
								10.253			
								Net Qty = A - B		40.064	58.187
	AC B.4										
	CH135.70	594.400	591.850	591.600			2.800				
	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	0.700	5.627		4.019	9.646
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.300	10.450		0.000	10.450
	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	0.400	3.215		21.704	24.919
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.400	3.215		8.038	11.254
	Item No. : 11 Transportation of earth Transportation charges							7.274		34.697	41.974



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

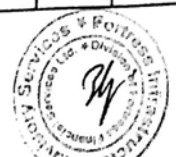
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Azad Chowk to Central Naka R 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						22.508				
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.550	2.244			
		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			
								7.274			
								15.233	58.187	73.420	
	AC 8.5										
	CH166.90	594.400	592.000	591.750			2.650				
	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	1.000	8.038	9.646	17.684	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.150	9.244	10.450	19.694	
	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	24.919	27.331	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	11.254	12.861	
	Item No. : 11 Transportation of earth Transportation charges							6.662	41.971	48.633	
	Item No. 30 :- Refilling the excavated trenches ...							21.302			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.400	1.632			
		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			
								6.662			
								14.640	73.420	88.060	
	AC 8.7										
	CH231.80	595.050	592.670	592.420			2.630				
	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	0.300	2.412	17.684	20.096	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	19.694	19.694	
	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	1.000	8.038	27.331	35.369	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.130	9.083	11.696	20.779	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	12.861	14.469	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	8.842	8.842	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	1.608	1.608	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.000	0.000	2.412	2.412	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	15.635	15.635	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	18.930	18.930	
	Item No. : 11 Transportation of earth Transportation charges							6.580	48.633	55.214	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (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 Nakshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- **172**
Page No. :-

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

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Azad Chowk to Central Naka R 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						21.141				
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.380	1.551			
		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			
								6.580			
	Net Qty = A - B							14.561	88.060	102.620	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

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Azad Chowk to Central Naka R 1.2 MH Exc.

14th RA BILL MEASUREMENTS OF CHEMBERS Azad Chowk to Central Naka

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Sewer at Azad Chowk to Central Naka										
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m										
	Bredth for chember upto 2m=2.66*2.66=7.075m										
	AC 8.6										
	CH198.10	594.300	592.340	592.090			2.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.67		20.10	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.700	3.89		35.37	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.67		14.47	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.910	5.05		8.84	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.394		55.21	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.274			
	Deduction										
	Brick work	1			0.785	1.31	1.31	1.960	2.64		
	Brick work								0.00		
	PCC	1			0.785	1.96	1.96	0.250	0.75		
	Murrum bedding								0.00		
	Total (B)							3.39			
	Net Qty = A - B							8.88	102.62	111.50	
	AC 8.8										
	CH293.10	595.750	593.575	593.325			2.425				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.700	3.89		21.76	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.500	2.78		39.26	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.925	5.14		20.78	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.67		16.14	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.684		58.61	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							13.468			
	Deduction										
	Brick work	1			0.785	1.31	1.31	2.175	2.93		
	Brick work								0.00		



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Page No. :-

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Azad Chowk to Central Naka R 1.2 MH Exc.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murum bedding							0.00			
	Total (B)							3.68			
		Net Qty = A - B								111.50	121.28
	AC 8.9										
	CH324.30	596.460	594.135	593.885			2.575				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.000	5.55	25.65	31.20	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	1.075	5.97	19.69	25.66	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.67	42.03	43.70	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.200	1.11	17.80	18.91	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.886	62.29	66.18	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							14.301			
	Deduction										
	Brick work	1		0.785	1.31	1.31	2.325	3.13			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murum bedding							0.00			
	Total (B)							3.89			
		Net Qty = A - B								121.28	131.70
	AC 8.10										
	CH378.30	596.680	594.485	594.235			2.445				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.100	6.11	31.20	37.31	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.945	5.25	25.66	30.91	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.67	43.70	45.37	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.56	18.91	19.47	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.711	66.18	69.89	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							13.579			
	Deduction										
	Brick work	1		0.785	1.31	1.31	2.195	2.96			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murum bedding							0.00			
	Total (B)							3.71			
		Net Qty = A - B								131.70	141.57
	AC 8.11										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Azad Chowk to Central Naka R 1.2 MH Exc.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	CH411.05	597.210	595.685	595.435			1.775				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33		37.31	45.64
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.275	1.53		30.91	32.44
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.808		69.89	72.70
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.858			
	Deduction										
	Brick work	1		0.785	1.31	1.31	1.525	2.05			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	Total (B)							2.81			
	Net Qty = A - B							7.05		141.57	148.62
	AC 8.12										
	CH429.85	597.890	596.085	595.835			2.055				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33		45.64	53.97
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.555	3.08		32.44	35.52
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.185		72.70	75.88
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							11.413			
	Deduction										
	Brick work	1		0.785	1.31	1.31	1.805	2.43			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	Total (B)							3.19			
	Net Qty = A - B							8.23		148.62	156.85
	AC 8.13										
	CH438.65	597.990	596.290	596.040			1.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33		53.97	62.31
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.450	2.50		35.52	38.02
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.00		45.37	45.37
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00		25.92	25.92
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.00		19.47	19.47
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00		13.90	13.90
	(c) For Lift 3.0m to 4.5m	1			0.785	7.075	0.000	0.00		1.61	1.61
	ITEM NO. 5 :- Excavation for foundation / pipe trenches in laterite rock masses by chhiseling etc. Completed.										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :-
Page No. :- **176**

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

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Azad Chowk to Central Naka R 1.2 MH Exc.

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.00			
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00		2.41	2.41
	(c) For Lift 3.0m to 4.5m	1			0.785	7.075	0.000	0.00		15.63	15.63
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.044		18.93	18.93
	Item No. 30 :- Refilling the excavated trenches ...									75.88	78.93
	Total Excavation(A)=							10.830			
	Deduction										
	Brick work	1		0.785	1.31	1.31	1.700	2.29			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	Total (B)							3.04			
	Net Qty = A - B							7.79		156.85	164.63



S. S. Dyong