



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, Erection, 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 Venture)

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

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RA 1 Sanjay Nagar-04 MB-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurment		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			5.940	1.600	0.600	5.702		102.588	108.296
	(b) For Lift 1.5m to 3.0m	1			5.940	1.200	0.100	0.713		7.945	8.659
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			5.940	1.200	0.150	1.069		5.087	6.150
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.940	1.200	0.200	1.426		39.487	40.912
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							2.836		77.662	80.498
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.500			7.500		150.000	157.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							16.038			
	Deduction										
	pipe area	1		0.785	5.940	0.550	0.550	1.41			
	Murum bedding							1.43			
	Total = B							2.84			
					Net Qty = A - B			13.20		361.474	374.674



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RA 12 Sanjay Nagar-04 MH Excavation

12th RA BILL MEASUREMENTS (Excavation of Manhole)

BRANCH SEWER AT " SANJAY NAGAR-04"

BRANCH SEWER AT " SANJAY NAGAR-04											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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										
	SNA 13										
	CH172.50	583.807	581.907	581.457			2.350				
	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	0.950	5.277		0.000	5.277
	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	0.300	1.666		0.000	1.666
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.700	3.888		0.000	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		0.000	1.389
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.100	0.555		0.000	0.555
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.050	0.278		0.000	0.278
	Item No. : 11 Transportation of earth Transportation charges							4.211		0.000	4.211
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							13.053			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.900	2.882			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.211			
		Net Qty = A - B						8.841		0.000	8.841
	SNA 14										
	CH186.10	583.824	582.257	581.807			2.017				
	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	0.300	1.666		5.277	6.943
	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	0.950	5.277		1.666	6.943
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.517	2.872		3.888	6.760
	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



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RA 12 Sanjay Nagar-04 MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. : 11 Transportation of earth Transportation charges							3.706		4.211	7.917
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.203			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.567	2.377			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.706			
	Net Qty = A - B							7.497		8.841	16.338
	SNA 15										
	CH197.20	584.007	582.407	581.957			2.050				
	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	0.600	3.333		6.943	10.276
	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	0.650	3.610		6.943	10.553
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.550	3.055		6.760	9.815
	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		2.777	4.166
	Item No. : 11 Transportation of earth Transportation charges							3.756		7.917	11.674
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.386			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.600	2.427			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.756			
	Net Qty = A - B							7.630		16.338	23.969
	SNA 16										
	CH208.30	584.637	582.737	582.287			2.350				
	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	0.500	2.777		10.276	13.053
	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	0.750	4.166		10.553	14.719
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.850	4.721		9.815	14.536
	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		4.166	5.554
	Item No. : 11 Transportation of earth Transportation charges							4.211		11.674	15.885



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

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RA Sanjay Nagar-04 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=							13.053			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.900	2.882			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.211			
		Net Qty = A - B						8.841		23.969	32.810
	SNA 17										
	CH219.40	584.787	583.087	582.637			2.150				
	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	0.400	2.222		13.053	15.274
	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	0.850	4.721		14.719	19.440
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.650	3.610		14.536	18.146
	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		5.554	6.943
	Item No. : 11 Transportation of earth Transportation charges							3.908		15.885	19.793
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.942			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.700	2.578			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.908			
		Net Qty = A - B						8.034		32.810	40.844
	SNA 18										
	CH233.00	585.187	583.437	582.987			2.200				
	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	0.300	1.666		15.274	16.941
	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	0.950	5.277		19.440	24.717
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.700	3.888		18.146	22.034
	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		6.943	8.332
	Item No. : 11 Transportation of earth Transportation charges							3.984		19.793	23.776



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RA 17 Sanjay Nagar-04 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=							12.220			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.750	2.654			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.984			
		Net Qty = A - B						8.236		40.844	49.080
	SNA 19										
	CH244.10	585.487	583.787	583.337			2.150				
	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	0.500	2.777		16.941	19.718
	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	0.750	4.166		24.717	28.883
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.650	3.610		22.034	25.644
	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		8.332	9.720
	Item No. : 11 Transportation of earth Transportation charges							3.908		23.776	27.684
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.942			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.700	2.578			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.908			
		Net Qty = A - B						8.034		49.080	57.114
	SNA 20										
	CH257.70	585.137	583.837	583.387			1.750				
	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	7.076	0.500	2.777		19.718	22.495
	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	0.300	1.666		28.883	30.549
	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	0.700	3.888		9.720	13.608
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389		0.278	1.666
	Item No. : 11 Transportation of earth Transportation charges							3.301		27.684	30.985



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RA 12.Sanjay Nagar-04 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=							9.720			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.300	1.972			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Solling	1		0.785	1.940	1.940	0.200	0.591			
								3.301			
		Net Qty = A - B						6.419		57.114	63.533
	SNA 21										
	CH271.30	585.487	584.187	583.737			1.750				
	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	0.700	3.888		30.549	34.437
	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	0.800	4.443		13.608	18.052
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389		0.555	1.944
	Item No. : 11 Transportation of earth Transportation charges							3.301		30.985	34.287
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.720			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.300	1.972			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Solling	1		0.785	1.940	1.940	0.200	0.591			
								3.301			
		Net Qty = A - B						6.419		63.533	69.952
	SNA 22										
	CH284.90	585.630	584.230	583.780			1.850				
	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	0.800	4.443		34.437	38.880
	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	0.700	3.888		18.052	21.940
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.350	1.944		1.944	3.888
	Item No. : 11 Transportation of earth Transportation charges							3.453		34.287	37.740
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.276			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.400	2.123			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Solling	1		0.785	1.940	1.940	0.200	0.591			
								3.453			
		Net Qty = A - B						6.823		69.952	76.774



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RA 11-Sanjay Nagar-04 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							
	SNA 23										
	CH298.50	585.730	584.380	583.930			1.800				
	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	0.900	4.999		38.880	43.879
	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	0.600	3.333		21.940	25.272
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.300	1.666		3.888	5.554
	Item No. : 11 Transportation of earth Transportation charges							3.377		37.740	41.117
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.998			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.350	2.048			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.377			
		Net Qty = A - B						6.621		76.774	83.395
	SNA 24										
	CH312.10	585.930	584.430	583.980			1.950				
	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	1.000	5.554		43.879	49.434
	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	0.500	2.777		25.272	28.049
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499		5.554	8.054
	Item No. : 11 Transportation of earth Transportation charges							3.605		41.117	44.721
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.605			
		NetQty = A - B						7.226		83.395	90.621
	SNA 25										
	CH325.70	585.980	584.480	584.030			1.950				
	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	0.900	4.999		49.434	54.433
	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	0.600	3.333		28.049	31.382
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499		8.054	10.553



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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

Book No. :- **167**
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RA 12-Sanjay Nagar-04 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. : 11 Transportation of earth Transportation charges							3.605		44.721	48.326
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.605			
		Net Qty = A - B						7.226		90.622	97.848
	SNA 26										
	CH334.30	586.120	584.520	584.070			2.050				
	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	0.900	4.999		54.433	59.432
	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	0.600	3.333		31.382	34.715
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.550	3.055		10.553	13.608
	Item No. : 11 Transportation of earth Transportation charges							3.756		48.326	52.082
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.386			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.600	2.427			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.756			
		Net Qty = A - B						7.630		97.848	105.478
	SNA 27										
	CH347.40	586.440	584.940	584.490			1.950				
	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	0.900	4.999		59.432	64.430
	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	0.600	3.333		34.715	38.047
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499		13.608	16.108
	Item No. : 11 Transportation of earth Transportation charges							3.605		52.082	55.686
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.605			
		Net Qty = A - B						7.226		105.478	112.705



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

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RA 12 Sanjay Nagar-04 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							
	SNA 28										
	CH360.50	586.300	585.000	584.550			1.750				
	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	7.076	0.400	2.222		22.495	24.717
	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	0.700	3.888		64.430	68.318
	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	0.400	2.222		38.047	40.269
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389		16.108	17.496
	Item No. : 11 Transportation of earth Transportation charges							3.301		55.686	58.988
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.720			
	Deduction										
	Brick work	1			0.785	1.390	1.390	1.300	1.972		
	PCC	1			0.785	1.940	1.940	0.250	0.739		
	Soling	1			0.785	1.940	1.940	0.200	0.591		
								3.301			
		Net Qty = A - B						6.419		112.705	119.124
	SNA 29										
	CH373.60	586.400	585.100	584.650			1.750				
	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	7.076	0.600	3.333		24.717	28.049
	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	0.450	2.499		68.318	70.818
	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	0.450	2.499		40.269	42.768
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389		17.496	18.885
	Item No. : 11 Transportation of earth Transportation charges							3.301		58.988	62.289
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.720			
	Deduction										
	Brick work	1			0.785	1.390	1.390	1.300	1.972		
	PCC	1			0.785	1.940	1.940	0.250	0.739		
	Soling	1			0.785	1.940	1.940	0.200	0.591		
								3.301			
		Net Qty = A - B						6.419		119.124	125.543



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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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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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RA 11.Sanjay Nagar-04 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							
	SNA 30										
	CH386.70	586.500	585.400	584.950			1.550				
	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	7.076	0.400	2.222		28.049	30.271
	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	0.500	2.777		70.818	73.595
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.000	0.000		25.644	25.644
	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	0.600	3.333		42.768	46.101
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.050	0.278		18.885	19.162
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.000	0.000		1.666	1.666
	Item No. : 11 Transportation of earth Transportation charges							2.998		62.289	65.287
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.609			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.100	1.668			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								2.998			
		Net Qty = A - B						5.611		125.543	131.154



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

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

1 of 1

RA 12 Sanjay Nagar-04 MANHOLE

12th RA BILL MEASUREMENTS (Manhole Detail) BRANCH SEWER AT " SANJAY NAGAR-04"

A 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.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH172.50	SNA 13	583.807	581.907	1.90	-0.10	-8.733	-17.466
2	CH186.10	SNA 14	583.824	582.257	1.57	-0.43		
3	CH197.20	SNA 15	584.007	582.407	1.60	-0.40		
4	CH208.30	SNA 16	584.637	582.737	1.90	-0.10		
5	CH219.40	SNA 17	584.787	583.087	1.70	-0.30		
6	CH233.00	SNA 18	585.187	583.437	1.75	-0.25		
7	CH244.10	SNA 19	585.487	583.787	1.70	-0.30		
8	CH257.70	SNA 20	585.137	583.837	1.30	-0.70		
9	CH271.30	SNA 21	585.487	584.187	1.30	-0.70		
10	CH284.90	SNA 22	585.630	584.230	1.40	-0.60		
11	CH298.50	SNA 23	585.730	584.380	1.35	-0.65		
12	CH312.10	SNA 24	585.930	584.430	1.50	-0.50		
13	CH325.70	SNA 25	585.980	584.480	1.50	-0.50		
14	CH334.30	SNA 26	586.120	584.520	1.60	-0.40		
15	CH347.40	SNA 27	586.440	584.940	1.50	-0.50		
16	CH360.50	SNA 28	586.300	585.000	1.30	-0.70		
17	CH373.60	SNA 29	586.400	585.100	1.30	-0.70		
18	CH386.70	SNA 30	586.500	585.400	1.10	-0.90		



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

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

Date of Measurement

RA 12, Sanjay Nagar-04 Quantity Node Abstract

12th R A BILL MEASUREMENTS

Branch Of Sewer " SANJAY NAGAR-04 "

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 5		ITEM 7	ITEM 11	ITEM 12		ITEM 13	
			0-1.5		0-1.5	1.5-3.0	0-1.5	1.5-3.0	1.5-3.0				315mm		315mm	
1	For Pipe		121.369		184.687	26.014	108.290	8.658	6.156		40.912	80.498	48.000		48.000	
2	For Manhole		30.271		73.595	25.644	46.101	19.162	1.666			65.287				
	Total		151.640		258.282	51.658	154.391	27.821	7.822		40.912	145.785	48.000		48.000	



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, Erection, 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 RPI/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to IP for Aurangabad City.

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

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GIECPL (Joint Venture)
Authority No. AMC/Ward B&C/UIDSSMT/2014/184 **Date** 01.07.2014

Particulars of Work	Details					Last Measurement		Total up to Date
	No.	Yr.	D.	M.	Units	Page	Quan-	

RA 12 Sanjay Nagar-04 Quantity Node Abstract

12th R A BILL MEASUREMENTS									
Branch Of Sewer " SANJAY NAGAR-04 "									
SR NO	Description	MB/PG	ITEM 17	ITEM 21	ITEM 21.1	ITEM 30	EIRL 9.1		
			400mm	upto 2 m	Rebate		250mm	300mm	300mm
1	For Pipe		157.500			374.675	35.833	32.335	32.335
2	For Manhole			18.000	(17.466)	131.154			
Total			157.500	18.000	-17.466	505.829	35.833	32.335	32.335





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 Nakshirawadi (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 Nakshirawadi (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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RA 12 Rohidaspora-300mm RCCPVC-110mm

12th R A BILL MEASUREMENTS

Branch Sewer at "Rohidaspora "

Branch Sewer at "Rohidaspora"											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	PVC PIPE -										
	110 mm Dia-Branch Sewer at "Rohidaspora " (Width of Trench -0.110+0.5=0.610m)										
	For Width of Trench Calculation	For Depth					0.0m to 1.5m	0.0m to 3.0m			
	Outer dia of Pipe + 0.50 for	For Lift 0.0m to 1.5m					0.610	1.010			
	Bottom and Add 0.4 for	For Lift 1.5m to 3.0m						0.610			
	Subsequent upper Lifts.										
	From Manhole RP 7 to RP 7.2										
	CH0.00	578.098	577.138	577.038			1.060	1.020			
	CH2.90	578.098	577.218	577.118			0.980				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.610	0.770	1.033		0.000	1.033
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.610	0.150	0.201		0.000	0.201
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.610	0.100	0.134		0.000	0.134
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.200	0.610	0.100	0.134		0.000	0.134
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.178		0.000	0.178
	Extra Item 9.5 a) :-Lowering & Laying of PVC pipe of 110mm Dia	1			2.450			2.450		0.000	2.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.369			
	pipe area	1.00		0.785	2.200	0.160	0.160	0.044			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.134			
								0.178			
		Net Qty = A - B						1.190		0.000	1.190
	From Manhole RP 18 to RP 18.1										
	CH0.00	581.373	580.543	580.443			0.930	0.640			
	CH1.00	581.443	581.193	581.093			0.350				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.390	0.077		1.033	1.111



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 174
Page No. :-

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

Authority No. AMCWard B&C UIDSMT 2014 184 **Date** 01.07.2014

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RA 12 Rohidaspora-300mm RCCPVC-110mm

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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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.150	0.030		0.201	0.231
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.100	0.020		0.134	0.154
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.300	0.660	0.100	0.020		0.134	0.154
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.026		0.178	0.204
	Extra Item 9.5 a) :- Lowering & Laying of PVC pipe of 110mm Dia	1			0.550			0.550		2.450	3.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.127			
	pipe area	1.00		0.785	0.300	0.160	0.160	0.006			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.020			
								0.026			
	Net Qty = A - B							0.101		1.190	1291



Signature



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. :-175

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

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

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RA 12 Rohidaspura-300mm RCC PVC-160mm

11th R A BILL MEASUREMENTS

Branch Sewer at "Rohidaspura "

Branch Sewer at "Rohidaspura "											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PVC PIPE - 160 mm Dia										
	160 mm Dia-Branch Sewer at "Rohidaspura " (Width of Trench -0.160+0.5=0.660m)										
	For Width of Trench Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Depth				0.0m to 1.5m		0.0m to 3.0m			
		For Lift 0.0m to 1.5m				0.660		1.060			
		For Lift 1.5m to 3.0m						0.660			
	From Manhole RP 7 to RP 7.3										
	CH0.00	578.098	577.138	577.038			1.060	0.980			
	CH1.50	578.168	577.368	577.268			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.800	0.660	0.730	0.385		1.111	1.496
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.800	0.660	0.150	0.079		0.231	0.310
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.800	0.660	0.100	0.053		0.154	0.207
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.800	0.660	0.100	0.053		0.154	0.207
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.069		0.204	0.273
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			1.050			1.050		0.000	1.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.517			
	pipe area	1.00		0.785	0.800	0.160	0.160	0.016			
	Murrum bedding							0.053			
								0.069			
								0.449		1.291	1.740
	From Manhole RP 10 to RP 10.2										
	CH0.00	578.658	578.108	578.008			0.650	0.650			
	CH2.00	578.868	578.318	578.218			0.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.660	0.400	0.343		1.496	1.839



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

Authority No.: AMC/Water R&C/HDSSMT/2014/181 Date 01.07.2014

RA 12 Rohidaspora-300mm RCC PVC-160mm

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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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				1.300	0.660	0.150	0.129		0.310	0.439
	(a) For Lift 0 to 1.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				1.300	0.660	0.100	0.086		0.207	0.293
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.300	0.660	0.100	0.086		0.207	0.293
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.112		0.273	0.385
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			1.550			1.550		1.050	2.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.558			
	pipe area	1.00		0.785	1.300	0.160	0.160	0.026			
	Murrum bedding							0.086			
								0.112			
								0.446		1.740	2.186
	From Manhole RP 12 to RP 12.2										
	CH0.00	579.338	578.248	578.148			1.190	0.870			
	CH3.00	579.388	578.938	578.838			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			2.300	0.660	0.620	0.941		1.839	2.780
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.660	0.150	0.228		0.439	0.667
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.660	0.100	0.152		0.293	0.444
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.300	0.660	0.100	0.152		0.293	0.444
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.198		0.385	0.583
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			2.550			2.550		2.600	5.150



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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. :- 177

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

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RA 11 Rohidaspora-300mm RCC PVC-160mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.321			
	pipe area	1.00		0.785	2.300	0.160	0.160	0.046			
	Murum bedding							0.152			
								0.198			
								1.123		2.186	3.308
	From Manhole RP 18 to RP 18.2										
	CH0.00	581.373	580.543	580.443			0.930	0.692			
	CH1.00	581.443	581.090	580.990			0.453				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.442	0.087		2.780	2.868
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.150	0.030		0.667	0.696
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.100	0.020		0.444	0.464
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.300	0.660	0.100	0.020		0.444	0.464
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.026		0.583	0.609
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			0.550			0.550		5.150	5.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.137			
	pipe area	1.00		0.785	0.300	0.160	0.160	0.006			
	Murum bedding							0.020			
								0.026			
								0.111		3.308	3.419
	From Manhole RP 18 to RP 18.3										
	CH0.00	581.373	580.543	580.443			0.930	0.755			
	CH3.10	581.473	580.993	580.893			0.580				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.850	0.660	0.505	0.617		2.868	3.484
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.850	0.660	0.150	0.183		0.696	0.879



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

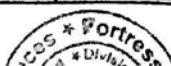
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), 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 G.R.P DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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RA 12.Rohidaspora-300mm RCC PVC-160mm

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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.850	0.660	0.100	0.122		0.464	0.586
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.850	0.660	0.100	0.122		0.464	0.586
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.159		0.609	0.768
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			2.350			2.350		5.700	8.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.922			
	pipe area	1.00		0.785	1.850	0.160	0.160	0.037			
	Murum bedding							0.122			
								0.159			
		Net Qty = A - B						0.763		3.419	4.182
	From Manhole RP 19 to RP 19.2										
	CH0.00	581.363	580.793	580.693			0.670	0.635			
	CH1.00	581.443	580.943	580.843			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.385	0.076		3.484	3.561
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.150	0.030		0.879	0.909
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.100	0.020		0.586	0.606
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.300	0.660	0.100	0.020		0.586	0.606
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.026		0.768	0.794
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			0.550			0.550		8.050	8.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.126			
	pipe area	1.00		0.785	0.300	0.160	0.160	0.006			
	Murum bedding							0.020			
								0.026			
		Net Qty = A - B						0.100		4.182	4.282





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

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

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Details

Last

RA 12 Rohidaspora-300mm RCC PVC-160mm

RA 12 Kohidaspura-300mm RCC PVC-160mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	From Manhole RP 19 to RP 19.3										
	CH0.00	581.363	580.793	580.693			0.670	0.635			
	CH1.00	581.443	580.943	580.843			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.385	0.076		3.561	3.637
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.150	0.030		0.909	0.939
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.660	0.100	0.020		0.606	0.626
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.300	0.660	0.100	0.020		0.606	0.626
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.026		0.794	0.820
	Extra Item 9.5 b) :-Lowering & Laying of PVC pipe of 160mm Dia	1			0.550			0.550		8.600	9.150
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.126			
	pipe area	1.00		0.785	0.300	0.160	0.160	0.006			
	Murrum bedding							0.020			
								0.026			
		Net Qty = A - B						0.100		4.282	4.382
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.001			0.001		0.000	0.001



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(From No.52)

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Book No. :- 183
Page No. :-

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

Authority No. AMO/Ward B&C/UDSSMT 2014/184 **Date** 01.07.2014

RA 11 Rohidaspora-300mm RCC SW-150mm

Page 1 of 5

11th R A BILL MEASUREMENTS Branch Sewer at "Rohidaspora"

Branch Sewer at Rohidaspora											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 150 mm Dia										
	150 mm Dia-Branch Sewer at "Rohidaspora " (Width of Trench -0.150+0.02+0.02+0.5=0.690m)										
							0.0m to 1.5m	0.0m to 3.0m			
	For Width of Trench Calculation										
	Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.						0.690	1.090			
								0.690			
	For Depth										
	For Lift 0.0m to 1.5m										
	For Lift 1.5m to 3.0m										
	From Manhole RP 3 to RP 3.2						0.830	0.840			
	CH0.00	576.278	575.548	575.448			0.850				
	CH2.85	576.408	575.658	575.558							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.150	0.690	0.590	0.875		3.637	4.512
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.150	0.690	0.150	0.223		0.939	1.161
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.150	0.690	0.100	0.148		0.626	0.774
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.150	0.690	0.100	0.148		0.626	0.774
	Item No. : 11 Transportation of earth Transportation charges							0.197		0.820	1.017
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			2.400			2.400		0.000	2.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.246			
	pipe area	1.00		0.785	2.150	0.170	0.170	0.049			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.148			
								0.197			
								1.049		4.382	5.431
	From Manhole RP 4 to RP 4.2										
	CH0.00	576.738	576.008	575.908			0.830	0.770			
	CH6.80	576.748	576.138	576.038			0.710				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.690	0.520	1.991		4.512	6.50



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

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RA 12-Rohidaspora-300mm RCC SW-150mm

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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.690	0.150	0.574		1.161	1.736
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.690	0.100	0.383		0.774	1.157
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.550	0.690	0.100	0.383		0.774	1.157
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.509		1.017	1.526
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			6.050			6.050		2.400	8.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.949			
	pipe area	1.00		0.785	5.550	0.170	0.170	0.126			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.383			
								0.509			
		Net Qty = A - B						2.440		5.431	7.871
	From Manhole RP 5 to RP 5.1										
	CH0.00	577.158	576.658	576.558			0.600	0.575			
	CH1.10	577.158	576.708	576.608			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			0.400	0.690	0.325	0.090		6.503	6.593
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.400	0.690	0.150	0.041		1.736	1.777
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.400	0.690	0.100	0.028		1.157	1.185
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.400	0.690	0.100	0.028		1.157	1.185
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.037		1.526	1.562
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			0.650			0.650		8.450	9.100



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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. :- 182

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

RA 12 Rohildaspura-300mm RCC SW-150mm

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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 ...							0.159			
	Total Excavation=							0.009			
	pipe area	1.00		0.785	0.400	0.170	0.170	0.000			
	soling							0.000			
	PCC							0.028			
	Murum bedding							0.037			
								0.122		7.871	7.993
		Net Qty = A - B									
	From Manhole RP 6 to RP 6.1										
	CH0.00	577.458	577.058	576.958			0.500	0.460			
	CH3.00	577.478	577.158	577.058			0.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.210	0.333		6.593	6.926
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.150	0.238		1.777	2.015
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.100	0.159		1.185	1.34
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.300	0.690	0.100	0.159		1.185	1.34
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.211		1.562	1.73
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			2.550			2.550		9.100	11.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.730			
	pipe area	1.00		0.785	2.300	0.170	0.170	0.052			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.159			
								0.211			
								0.519		7.993	8.512
		Net Qty = A - B									
	From Manhole RP 7 to RP 7.1										
	CH0.00	578.098	577.638	577.538			0.560	0.555			
	CH1.65	578.218	577.768	577.668			0.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.690	0.305	0.200		6.926	7.126



Two handwritten signatures.