



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. 08 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising main

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Page No. :-

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Trisharan Nagar Buddha Vihar - Chember

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.220	1.289			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.766			
		Net Qty = A - B								27.084	29.934
	FN 6.13										
	CH113.60	567.540	566.800	566.550			0.990				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.990	3.109	47.501	50.609	
	Item No. : 11 Transportation of earth Transportation charges							1.259	19.765	21.024	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.109			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.740	0.782			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.259			
		Net Qty = A - B								29.934	31.783
	FN 6.2.1										
	CH5.60	565.100	564.200	563.950			1.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	1.150	3.910	50.609	54.519	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.000	0.000	0.188	0.188	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.000	0.000	1.382	1.382	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.000	0.000	0.628	0.628	
	Item No. : 11 Transportation of earth Transportation charges							1.906	21.024	22.930	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.910			
	Deduction										
	Brick work	1			1.400	1.100	0.900	1.386			
	soling							0.000			
	PCC	1			1.600	1.300	0.250	0.520			
	Murum bedding							0.000			
	Total (B)							1.906			
		Net Qty = A - B								31.783	33.783



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

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

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Trisharan Nagar Buddha Vihar - Trisharan Nagar Buddha Vihar

14th R A BILL MEASUREMENTS CHEMBER DETAILS TRISHARAN NAGAR BUDDHA NAGAR

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr		Total Rebate Qty for 30 cm
		No			For per 30 cm		
		GL	IL	DEPTH			
A	Extra Item No. 02 : Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1	NAREGAON ANAND GADHE NAGAR						
	For Full Rate						
1	FN 6.1	565.090	564.050	1.040	1.500	-0.460	-19.067
2	FN 6.2	565.350	564.280	1.070	1.500	-0.430	
3	FN 6.3	565.490	564.390	1.100	1.500	-0.400	
4	FN 6.4	565.590	564.570	1.020	1.500	-0.480	
5	FN 6.5	565.760	564.670	1.090	1.500	-0.410	
6	FN 6.6	566.080	564.770	1.310	1.500	-0.190	
7	FN 6.8	566.290	565.120	1.170	1.500	-0.330	
8	FN 6.9	566.420	565.720	0.700	1.500	-0.800	
9	FN 6.10	566.550	565.730	0.820	1.500	-0.680	
	For Reduce Rate						
1	FN 6.11	567.040	566.040	1.000	1.500	-0.500	
2	FN 6.12	567.310	566.090	1.220	1.500	-0.280	
3	FN 6.13	567.540	566.800	0.740	1.500	-0.760	
	TOTAL					-5.720	-19.067
B	Extra Item No. 03 : Providing and constructing on sewer.BBM manhole 0.9 x 0.6 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1							
1	FN 6.7	566.190	565.020	1.170	1.500	-0.330	-3.100
2	FN 6.2.1	565.100	564.200	0.900	1.500	-0.600	
	TOTAL					-0.930	-3.100



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Trisharan Nagar Buddha Vihar - Quantity Abstract

SR NO	Description	MB/PG	QUANTITY ABSTRACT												ITEM 35	ITEM 30	Extra Item 2 Full Rate	Extra Item 2 RR Rate-1420	Extra Item 2.a Rebate	Extra Item 3 Rebate	Extra Item 3.a Rebate	
			ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	Item No.12			Item No.13										
			0-1.5	1.5-3.0					200m	250m	315m	200mm	250mm	315m								
1	For Pipe	1	75.618	0.000	2.841	0.725	7.670	7.670	12.326	43.850	57.350	10.000	315m	10.000	66.859	0.400	9.000	3.000	-19.067	2.00	-3.10	
2	For Manhole		54.519	0.188	1.382	0.628		22.930							33.787							
Total			130.137	0.188	4.223	1.353	7.670	7.670	35.256	43.850	57.350	10.000	43.850	57.350	100.646	0.400	9.000	3.000	-19.067	2.00	-3.10	

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Boudha Nagar-03 - Meas. Pipe

17th R A BILL MEASUREMENTS PIPE BOUDHA NAGAR-03

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 - 200 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4=1.14 m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4=1.54m										
	Nalla to BD 1										
	CH0.00	584.150	582.550	582.450			1.700	1.510			
	CH4.00	584.570	583.350	583.250			1.320				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.740	1.350	2.997	0.000	2.997	
	(b) For Lift 1.5m to 3.0m	1			3.000	0.740	0.010	0.022	0.000	0.022	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.740	0.150	0.333	0.000	0.333	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.300	0.740	0.100	0.244	0.000	0.244	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.370	0.000	0.370	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			3.550			3.550		3.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.352			
	Deduction										
	pipe area	1		0.785	3.300	0.220	0.220	0.125			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.244			
								0.370			
								2.983	0.000	2.983	
	Net Qty = A - B										
	BD 1 to BD 2										
	CH4.00	584.570	583.350	583.250			1.320	1.250			
	CH13.00	585.050	583.970	583.870			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.000	0.740	1.100	5.698	2.997	8.695	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



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Boudha Nagar-03 - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			7.000	0.740	0.150	0.777		0.333	1.110
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.600	0.740	0.100	0.562		0.244	0.807
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.851		0.370	1.221
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.100			8.100		3.550	11.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.475			
	Deduction										
	pipe area	1		0.785	7.600	0.220	0.220	0.289			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.562			
								0.851			
								Net Qty = A - B		2.983	8.606
	BD 2 to BD 3										
	CH13.00	585.050	583.970	583.870			1.180	1.225			
	CH27.30	585.920	584.750	584.650			1.270				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.600	0.740	1.075	10.023		8.695	18.718
	(b) For Lift 1.5m to 3.0m	1			12.600	0.740	0.000	0.000		0.022	0.022
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.600	0.740	0.150	1.399		1.110	2.509
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.900	0.740	0.100	0.955		0.807	1.761
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.445		1.221	2.665
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			13.400			13.400		11.650	25.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.422			
	Deduction										
	pipe area	1		0.785	12.900	0.220	0.220	0.490			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.955			
								1.445			
								Net Qty = A - B		8.606	18.584



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Boudha Nagar-03 - Meas.Chamber

11th R A BILL MEASUREMENTS OF CHAMBERS BOUDHA NAGAR-03

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=2 X 2=4m										
	BD 2										
	CH13.00	585.050	583.970	583.720			1.330				
	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	4.000	1.180	3.705	0.000	3.705	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.000	0.471	
	Item No. : 11 Transportation of earth Transportation charges							1.723	0.000	1.723	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.176			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.080	1.221			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.723			
					Net Qty = A - B				2.453	0.000	2.453



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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		Boudha Nagar-03 - Manhole Details		Last				
12th R A BILL MEASUREMENTS								
Branch Sewer at BOUDHA NAGAR-03								
Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M								
Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	CH 13.00	BD 2	585.050	583.970	1.080	-0.420	-0.420	-1.400
							Total	-1.400



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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

Boudha Nagar-03 Quantity Node Abstract

12th R A BILL MEASUREMENTS
Branch Sewer at BOUDHA NAGAR-03

SR NO	Description	MBIPG		ITEM 1		ITEM 2		ITEM 7	ITEM 11	ITEM 30	EIRL 2		EIRL 9.1		EIRL 9.2		
		0-1.5	1.5-3.0	0-1.5	1.5-3.0	Full Rate	Rebate				200mm	200mm					
1	For Pipe	18.718	0.022	2.509	1.761	2.665	18.584	1.000				25.050	25.050			25.050	
2	For Manhole	3.705		0.471		1.723	2.453	1.000	(1.400)								
	Total	22.423	0.022	2.980	1.761	4.389	21.037	1.000	(1.400)			25.050	25.050			25.050	

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Mahu Nagar - Meas. Pipe

11th RA BILL MEASUREMENTS PIPE MAHU NAGAR

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 - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.79m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4=1.59m										
	Part-I MN Old to MN 1										
	CH0.00	583.120	582.020	581.920			1.200	1.170			
	CH11.50	583.280	582.240	582.140			1.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.650	0.790	1.020	7.776	0.000	7.776	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.650	0.790	0.150	1.144	0.000	1.144	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.950	0.790	0.100	0.786	0.000	0.786	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.355	0.000	1.355	
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			10.450			10.450		10.450	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.919			
	Deduction										
	pipe area	1		0.785	9.950	0.270	0.270	0.569			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.786			
								1.355			
	Net Qty = A - B							7.564	0.000	7.564	
	MN 1 to MN 2										
	CH11.50	583.280	582.240	582.140			1.140	1.135			
	CH20.95	583.320	582.290	582.190			1.130				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.450	0.790	0.985	5.797	7.776	13.573	



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Mahu Nagar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.450	0.790	0.150	0.883		1.144	2.026
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.050	0.790	0.100	0.636		0.786	1.422
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.097		1.355	2.452
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			8.550			8.550		10.450	19.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.680			
	Deduction										
	pipe area	1		0.785	8.050	0.270	0.270	0.461			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.636			
								1.097			
	Net Qty = A - B							5.583		7.564	13.147
	MN 2 to MN 3										
	CH20.95	583.320	582.290	582.190			1.130	1.090			
	CH33.85	583.370	582.420	582.320			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.900	0.790	0.940	8.094		13.573	21.668
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.900	0.790	0.150	1.292		2.026	3.318
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.500	0.790	0.100	0.909		1.422	2.331
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.567		2.452	4.019
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			12.000			12.000		19.000	31.000
	Item No. 30 :- Refilling the excavated trenches ...							9.386			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	11.500	0.270	0.270	0.658			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.909			



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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 Nakhtrawadi (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

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Mahu Nagar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			10.900			10.900		44.900	55.800
	Item No. 30 :- Refilling the excavated trenches ...							6.310			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	10.400	0.270	0.270	0.595			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.822			
								1.417			
								Net Qty = A - B	4.893	28.899	33.792
Part-II	MNP 0 to MNP 1										
	CH0.00	585.380	584.030	583.930			1.450	1.415			
	CH10.10	585.710	584.430	584.330			1.380				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.790	1.115	7.399		35.057	42.456
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.790	0.300	1.991		5.996	7.987
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.700	0.790	0.100	0.687		4.211	4.898
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			9.200			9.200		55.800	65.000
	Item No. 30 :- Refilling the excavated trenches ...							9.390			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	8.700	0.270	0.270	0.498			
	soling							0.000			
	PCC							0.687			
	Murum bedding							1.185			
								8.205		33.792	41.997
								Net Qty = A - B			
	MNP 1 to MNP 2										
	CH10.10	585.710	584.430	584.330			1.380	1.405			
	CH15.10	585.820	584.490	584.390			1.430				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.790	1.105	2.619		42.456	45.075
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



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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

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Mahu Nagar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			3.000	0.790	0.300	0.711		7.987	8.698
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.600	0.790	0.100	0.284		4.898	5.182
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			4.100			4.100		65.000	69.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.330			
	Deduction										
	pipe area	1		0.785	3.600	0.270	0.270	0.206			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.284			
								0.490			
								Net Qty = A - B		2.839	41.997
	MNP 2 to MNP 3										44.837
	CH15.10	585.820	584.490	584.390				1.430			
	CH32.60	585.860	584.730	584.630				1.230	1.330		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.790	1.030	12.612		45.075	57.688
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.790	0.300	3.674		8.698	12.371
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.100	0.790	0.100	1.272		5.182	6.454
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			16.600			16.600		69.100	85.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.286			
	Deduction										
	pipe area	1		0.785	16.100	0.270	0.270	0.921			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.272			
								2.193			
								Net Qty = A - B		14.093	44.837
	MNP 3 to MNP 4										58.929
	CH32.60	585.860	584.730	584.630				1.230			
	CH43.30	585.980	584.760	584.660				1.320	1.275		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										



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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 (Kanehanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

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Mahu Nagar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			8.700	0.790	0.975	6.701		57.688	64.389
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.700	0.790	0.300	2.062		12.371	14.433
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.300	0.790	0.100	0.735		6.454	7.189
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			9.800			9.800		85.700	95.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.763			
	Deduction										
	pipe area	1		0.785	9.300	0.270	0.270	0.532			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.735			
								1.267			
								Net Qty = A - B		58.929	66.425
	MNP 4 to MNP 5										
	CH43.30	585.980	584.760	584.660			1.320				
	CH46.40	585.880	584.830	584.730			1.150	1.235			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.100	0.790	0.935	0.813		64.389	65.201
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.100	0.790	0.300	0.261		14.433	14.694
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.700	0.790	0.100	0.134		7.189	7.323
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			2.200			2.200		95.500	97.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.073			
	Deduction										
	pipe area	1		0.785	1.700	0.270	0.270	0.097			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.134			
								0.232			
								Net Qty = A - B		66.425	67.267
	MNP 5 to MNP 6										
	CH46.40	585.880	584.830	584.730			1.150	1.075			

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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 Vencture)

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

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Mahu Nagar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
							0.300				
		Net Qty = A - B						0.952	67.613	68.565	
	MNP 7 to MNP 8										
	CH52.60	585.760	584.880	584.780			0.980	0.980			
	CH65.50	585.860	584.980	584.880			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			10.900	0.790	0.680	5.855	66.441	72.296	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.900	0.790	0.300	2.583	15.215	17.799	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.500	0.790	0.100	0.909	7.592	8.500	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.000	7.261	7.261	
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			12.000			12.000	102.100	114.100	
	Item No. 30 :- Refilling the excavated trenches ...							8.439			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	11.500	0.270	0.270	0.658			
	soling							0.000			
	PCC							0.909			
	Murrum bedding							1.567			
								6.872	68.565	75.437	
		Net Qty = A - B									



Signature
Secretary



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

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Mahu Nagar - Meas.Chamber

11th RA BILL MEASUREMENTS OF CHAMBERS MAHU NAGAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m Bredth for chamber up to 1.5m=2 X 2=4m										
Part-I	MN 1										
	CH11.50	583.280	582.240	581.990			1.290				
	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	4.000	1.140	3.580	0.000	3.580	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.000	0.471	
	Item No. : 11 Transportation of earth Transportation charges							1.678	0.000	1.678	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.051			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.040	1.176			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.678			
	Net Qty = A - B							2.373	0.000	2.373	
	MN 2										
	CH20.95	583.320	582.290	582.040			1.280				
	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	4.000	1.130	3.548	3.580	7.128	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.471	0.942	
	Item No. : 11 Transportation of earth Transportation charges							1.667	1.678	3.345	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.019			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.030	1.164			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.667			
	Net Qty = A - B							2.352	2.373	4.725	
	MN 3										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

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Mahu Nagar - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH33.85	583.370	582.420	582.170			1.200				
	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	4.000	1.050	3.297	7.128	10.425	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.942	1.413	
	Item No. : 11 Transportation of earth Transportation charges							1.576	3.345	4.921	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.768			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.950	1.074			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.576			
	Net Qty = A - B							2.192	4.725	6.917	
	MN 4										
	CH48.65	583.330	582.550	582.300			1.030				
	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	4.000	0.880	2.763	10.425	13.188	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	1.413	1.884	
	Item No. : 11 Transportation of earth Transportation charges							1.384	4.921	6.305	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.234			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.780	0.882			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.384			
	Net Qty = A - B							1.850	6.917	8.767	
	MN 5										
	CH60.45	583.250	582.600	582.350			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			0.785	4.000	0.750	2.355	13.188	15.543	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	1.884	2.355	



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Mahu Nagar - Meas.Chamber

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. : 11 Transportation of earth Transportation charges							1.237		6.305	7.542
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.826			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.650	0.735			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.237			
								Net Qty = A - B		8.767	10.356
	Part-II MNP 1										
	CH10.10	585.710	584.430	584.180				1.530			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768		15.543	19.311
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.030	0.094		0.000	0.094
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		2.355	3.297
	Item No. : 11 Transportation of earth Transportation charges							1.949		7.542	9.492
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.804			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.280	1.447			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.949			
								Net Qty = A - B		10.356	13.211
	MNP 2										
	CH15.10	585.820	584.490	584.240				1.580			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768		19.311	23.079
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.080	0.251		0.094	0.345
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		3.297	4.239
	Item No. : 11 Transportation of earth Transportation charges							2.006		9.492	11.497
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.961			
	Deduction										



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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 G.R.P/DI pipe-line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Mahu Nagar - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Brick work	1		0.785	1.200	1.200	1.330	1.503			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							2.006			
	Net Qty = A - B								2.955	13.211	16.166
	MNP 3										
	CH32.60	585.860	584.730	584.480			1.380				
	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	4.000	1.080	3.391	23.079	26.470	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	4.239	5.181	
	Item No. : 11 Transportation of earth Transportation charges							1.780	11.497	13.277	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.333			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.130	1.277			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.780			
	Net Qty = A - B								2.553	16.166	18.719
	MNP 4										
	CH43.30	585.980	584.760	584.510			1.470				
	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	4.000	1.170	3.674	26.470	30.144	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	5.181	6.123	
	Item No. : 11 Transportation of earth Transportation charges							1.881	13.277	15.159	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.616			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.220	1.379			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.881			
	Net Qty = A - B								2.734	18.719	21.454
	MNP 5										
	CH46.40	585.880	584.830	584.580			1.300				



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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

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Mahu Nagar - Meas.Chamber

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140		30.144	33.284
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		6.123	7.065
	Item No. : 11 Transportation of earth Transportation charges							1.689		15.159	16.848
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.082			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.050	1.187			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.689			
	Net Qty = A - B							2.393		21.454	23.846
	MNP 6										
	CH49.00	585.780	584.880	584.630			1.150				
	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	4.000	0.850	2.669		33.284	35.953
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		7.065	8.007
	Item No. : 11 Transportation of earth Transportation charges							1.520		16.848	18.368
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.611			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.900	1.017			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.520			
	Net Qty = A - B							2.091		23.846	25.938
	MNP 7										
	CH52.60	585.760	584.880	584.630			1.130				
	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	4.000	0.830	2.606		35.953	38.559
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.000	0.000		0.345	0.345
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		8.007	8.949





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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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

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Mahu Nagar - Meas.Chamber

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							1.497		18.368	19.865	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							3.548				
	Deduction											
	Brick work	1		0.785	1.200	1.200	0.880	0.995				
	soling							0.000				
	PCC	1		0.785	1.600	1.600	0.250	0.502				
	Murum bedding							0.000				
	Total (B)							1.497				
								Net Qty = A - B		2.051	25.938	27.989



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Mahu Nagar - Manhole Details

17th R A BILL MEASURMENTS										
Branch Sewer at MAHU NAGAR										
Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M										
Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)		
Part - I For Reduce Rate										
1	CH 11.50	MN 1	583.280	582.240	1.040	-0.460	-5.760	-19.200 ✓		
2	CH 20.95	MN 2	583.320	582.290	1.030	-0.470				
3	CH 33.85	MN 3	583.370	582.420	0.950	-0.550				
4	CH 48.65	MN 4	583.330	582.550	0.780	-0.720				
5	CH 60.45	MN 5	583.250	582.600	0.650	-0.850				
Part - II For Reduce Rate										
1	CH 10.10	MNP 1	585.710	584.430	1.280	-0.220				
2	CH 15.10	MNP 2	585.820	584.490	1.330	-0.170				
3	CH 32.60	MNP 3	585.860	584.730	1.130	-0.370				
4	CH 43.30	MNP 4	585.980	584.760	1.220	-0.280				
5	CH 46.40	MNP 5	585.880	584.830	1.050	-0.450				
6	CH 49.00	MNP 6	585.780	584.880	0.900	-0.600				
7	CH 52.60	MNP 7	585.760	584.880	0.880	-0.620				
							Total	-19.200 ✓		



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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

Mahu Nagar Quantity Node Abstract

11th R A BILL MEASUREMENTS
Branch Sewer at MAHU NAGAR

SR NO	Description	MB/PG		ITEM 1		ITEM 2	ITEM 7	ITEM 11	ITEM 30	EIRL 2	EIRL 2.a	EIRL 9.1	EIRL 9.2
		0-1.5	1.5-3.0	0-1.5			R.R. 1420	Rebate	250mm	250mm	SW Pipe		
1	For Pipe	72.296	-	17.799	8.500	7.261	75.437	114.100	114.100				
2	For Manhole	38.559	0.345	8.949	19.865	27.989	103.426	(19.200)	12.000				
Total		110.855	0.345	26.748	8.500	27.126	103.426	(19.200)	12.000	114.100	114.100	114.100	114.100

Secretary



