



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

Book No. :-
Page No. :- **126**

6 of 8

Milind Nagar-02 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						0.941			
21/11	ML 3 to ML 3.1							3.359	22.996	26.356	
	CH0.00	569.350	568.350	568.250							
	CH4.50	569.395	568.520	568.420			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						0.975	1.038			
	(a) For Lift 0 to 1.5m	1			3.050	0.740	0.878	1.982	26.552	28.534	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.050	0.740	0.160	0.361	5.068	5.429	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.350	0.740	0.100	0.248	3.478	3.726	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.375	5.264	5.639	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene,SW pipe of 200mm Dia	1			3.850			3.850	51.000	54.850	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.343			
	Deduction										
	pipe area	1		0.785	3.350	0.220	0.220	0.127			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.248			
								0.375			
								1.968	26.356	28.323	
21/11	ML 3.1 to ML 3.2										
	CH4.50	569.395	568.520	568.420							
	CH10.20	569.470	568.630	568.530			0.975	0.958			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						0.940				
	(a) For Lift 0 to 1.5m	1			3.700	0.740	0.798	2.185	28.534	30.719	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.740	0.160	0.438	5.429	5.867	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.300	0.740	0.100	0.318	3.726	4.044	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.482	5.639	6.120	



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Book No. :-
Page No. :- **127**

Milind Nagar-02 - Pipe Measurement

7 of 8

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 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			4.800				54.850	59.650	
	Item No. 30 :- Refilling the excavated trenches ...						2.623				
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	4.300	0.220	0.220	0.163			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.318			
								0.482			
	Net Qty = A - B							2.141	28.323	30.465	
25/11/16	ML 3.2 to ML 3.3										
	CH10.20	569.470	568.630	568.530			0.940				
	CH16.20	569.470	568.740	568.640			0.830	0.885			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.725	2.146	30.719	32.865	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.160	0.474	5.867	6.340	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340	4.044	4.385	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.515	6.120	6.636	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.100			5.100	59.650	64.750	
	Item No. 30 :- Refilling the excavated trenches ...							2.620			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	4.600	0.220	0.220	0.175			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.340			
								0.515			
	Net Qty = A - B							2.104	30.465	32.569	
25/11/16	ML 3.3 to ML 3.4										
	CH16.20	569.470	568.740	568.640			0.830				
	CH22.80	569.470	568.880	568.780			0.690	0.760			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.600	0.740	0.600	2.042	32.865	34.907	



2



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(From No.52)

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Book No. :-
Page No. :- **128**

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	contains Arrears	Page No.	Quantity	

8 of 8

Millind Nagar-02 - Pipe Measurement

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.										
	(a) For Lift 0 to 1.5m	1			4.600	0.740	0.160	0.545		6.340	6.885
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.200	0.740	0.100	0.385		4.385	4.769
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.582		6.636	7.218
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.700			5.700		64.750	70.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.587			
	Deduction										
	pipe area	1			0.785	5.200	0.220	0.220		0.198	
	soling									0.000	
	PCC									0.000	
	Murrum bedding									0.385	
								0.582			
	Net Qty = A - B							2.005		32.569	34.574



J



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Book No. :-

Page No. :- 129

1 of 6

Milind Nagar-02 - Meas.Chember

17th RA BILL MEASUREMENTS OF CHEMBERS MILIND NAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	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										
	ML 1										
	CH2.50	568.810	567.890	567.640			1.170				
	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	1.010	3.171	0.000	3.171	
	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	0.160	0.502	0.000	0.502	
	Item No. : 11 Transportation of earth Transportation charges							1.449	0.000	1.449	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.674			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.920	0.972			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.449			
	Net Qty = A - B							2.224	0.000	2.224	
	ML 2										
	CH8.50	569.020	568.030	567.780			1.240				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.080	3.391	3.171	6.563	
	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	0.160	0.502	0.502	1.005	
	Item No. : 11 Transportation of earth Transportation charges							1.523	1.449	2.973	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.894			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.990	1.046			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.523			
	Net Qty = A - B							2.370	2.224	4.595	
	ML 3										



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Book No. :-
Page No. :- **130**

2 of 6

Milind Nagar-02 - Meas.Chember

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	CH18.80	569.350	568.350	568.100			1.250			
	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	1.090	3.423	6.563	9.985
	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	0.160	0.502	1.005	1.507
	Item No. : 11 Transportation of earth Transportation charges							1.534	2.973	4.507
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							3.925		
	Deduction									
	Brick work	1		0.785	1.160	1.160	1.000	1.056		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)							1.534		
								Net Qty = A - B	2.391	4.595
	ML 4									6.986
	CH31.50	569.740	568.740	568.490			1.250			
	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	1.090	3.423	9.985	13.408
	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	0.160	0.502	1.507	2.010
	Item No. : 11 Transportation of earth Transportation charges							1.534	4.507	6.040
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							3.925		
	Deduction									
	Brick work	1		0.785	1.160	1.160	1.000	1.056		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)							1.534		
								Net Qty = A - B	2.391	6.986
	ML 1.1									9.377
	CH7.60	568.930	568.010	567.760			1.170			
	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	1.010	3.171	13.408	16.579
	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	0.160	0.502	2.010	2.512



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Book No. :- **131**
Page No. :-

3 of 6

Milind Nagar-02 - Meas.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							
	Item No. : 11 Transportation of earth Transportation charges							1.449		6.040	7.490
	Item No. 30 :- Refilling the excavated trenches ...							3.674			
	Total Excavation(A)=										
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.920	0.972			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.449			
	Net Qty = A - B							2.224		9.377	11.601
	ML 1.2										
	CH11.40	569.020	568.190	567.940			1.080				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.920	2.889		16.579	19.468
	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	0.160	0.502		2.512	3.014
	Item No. : 11 Transportation of earth Transportation charges							1.354		7.490	8.844
	Item No. 30 :- Refilling the excavated trenches ...							3.391			
	Total Excavation(A)=										
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.830	0.877			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.354			
	Net Qty = A - B							2.037		11.601	13.638
	ML 1.3										
	CH16.40	569.120	568.330	568.080			1.040				
	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		19.468	22.231
	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	0.160	0.502		3.014	3.517
	Item No. : 11 Transportation of earth Transportation charges							1.312		8.844	10.156
	Item No. 30 :- Refilling the excavated trenches ...							3.266			
	Total Excavation(A)=										
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.790	0.834			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			



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Book No. :-

Page No. :- 132

4 of 6

Milind Nagar-02 - Meas.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							
	Murum bedding										
	Total (B)						1.312				
		Net Qty = A - B						1.954		13.638	15.592
	ML 1.4										
	CH26.20	569.060	568.560	568.310			0.750				
	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	0.590	1.853		22.231	24.084
	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	0.160	0.502		3.517	4.019
	Item No. : 11 Transportation of earth Transportation charges							1.006		10.156	11.162
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.355			
	Deduction										
	Brick work	1			0.785	1.160	1.160	0.500		0.528	
	soling									0.000	
	PCC	1			0.785	1.560	1.560	0.250		0.478	
	Murum bedding									0.000	
	Total (B)							1.006			
		Net Qty = A - B						1.349		15.592	16.941
	ML 3.1										
	CH4.50	569.395	568.520	568.270			1.125				
	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	0.965	3.030		24.084	27.114
	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	0.160	0.502		4.019	4.522
	Item No. : 11 Transportation of earth Transportation charges							1.402		11.162	12.564
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.533			
	Deduction										
	Brick work	1			0.785	1.160	1.160	0.875		0.924	
	soling									0.000	
	PCC	1			0.785	1.560	1.560	0.250		0.478	
	Murum bedding									0.000	
	Total (B)							1.402			
		Net Qty = A - B						2.131		16.941	19.072
	ML 3.2										
	CH10.20	569.470	568.630	568.380			1.090				
	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	0.930	2.920		27.114	30.034



J

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Book No. :-
Page No. **133**

5 of 6

Milind Nagar-02 - Meas.Chember

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to 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			0.785	4.000	0.160	0.502		4.522	5.024
	Item No. : 11 Transportation of earth Transportation charges							1.365		12.564	13.929
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.423			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.840	0.887			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.365			
	Net Qty = A - B							2.058		19.072	21.129
	ML 3.3										
	CH16.20	569.470	568.740	568.490			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			0.785	4.000	0.820	2.575		30.034	32.609
	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	0.160	0.502		5.024	5.526
	Item No. : 11 Transportation of earth Transportation charges							1.249		13.929	15.177
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.077			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.730	0.771			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.249			
	Net Qty = A - B							1.829		21.129	22.958
	ML 3.4										
	CH22.80	569.470	568.880	568.630			0.840				
	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	0.680	2.135		32.609	34.744
	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	0.160	0.502		5.526	6.029
	Item No. : 11 Transportation of earth Transportation charges							1.101		15.177	16.278
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.638			



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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. :- **134**
Page No. :-

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	

6 of 6

Milind Nagar-02 - Meas.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	0.590	0.623			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.101			
		Net Qty = A - B								22.958	24.495



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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. :- **135**

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Units	Page	Quantity	

1 of 1

Milind Nagar-02 - Manhole Details

12th RA BILL MEASUREMENTS								
Branch Sewer at Milind Nagar-02								
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)
A For Full Rate								
1	CH 2.50	ML 1	568.810	567.890	0.920	-0.580		
2	CH 8.50	ML 2	569.020	568.030	0.990	-0.510		
3	CH 18.80	ML 3	569.350	568.350	1.000	-0.500		
4	CH 31.50	ML 4	569.740	568.740	1.000	-0.500		
5	CH 7.60	ML 1.1	568.930	568.010	0.920	-0.580		
6	CH 11.40	ML 1.2	569.020	568.190	0.830	-0.670		
7	CH 16.40	ML 1.3	569.120	568.330	0.790	-0.710	-8.015	-26.717
8	CH 4.50	ML 3.1	569.395	568.520	0.875	-0.625		
9	CH 10.20	ML 3.2	569.470	568.630	0.840	-0.660		
A For Reduce Rate								
1	CH 26.20	ML 1.4	569.060	568.560	0.500	-1.000		
2	CH 16.20	ML 3.3	569.470	568.740	0.730	-0.770		
3	CH 22.80	ML 3.4	569.470	568.880	0.590	-0.910		
							Total	-26.717

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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. :- **136**
Page No. :-

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

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	0-1.5	1				Full Rate	R.R. 1420		200mm	200mm	
1	For Pipe		34.907	6.885	4.769	7.218	34.574						70.450		70.450
2	For Manhole		34.744	6.029		16.278	24.495					(26.717)			
	Total		69.651	12.914	4.769	23.496	59.069				9.000	3.000	9.000	70.450	70.450

1 of 1

Milind Nagar-02 Quantity Node Abstract

11th R A BILL MEASUREMENTS

Branch Sewer at Milind Nagar-02


 Secretary



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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

Book No. :-
Page No. :- **137**

Page 1 of 10

Dashmesh Nagar Measurement MB-315mm

12th R A BILL MEASUREMENTS DWC PIPE DASHMESH 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							
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
11/8/16	D14 TO D14.1	Branch From D14 MH at CH - 206.80									
	CH0.00	574.104	571.914	571.814			2.290	2.155			
	CH19.40	574.544	572.624	572.524			2.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.200	1.215	1.155	24.137	0.000	24.137	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.200	1.215	0.345	7.210	0.000	7.210	
	(b) For Lift 1.5m to 3.0m	1			17.200	0.815	0.655	9.182	0.000	9.182	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.700	0.815	0.100	1.443	0.000	1.443	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.821	0.000	2.821	
	Item No. 13 :- (d) Lowering & Laying of DWC pipe of 315mm Dia	1			18.200			18.200	0.000	18.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							40.529			
	Deduction of 315mm dia pipe										
	pipe area	1.00			0.785	17.700	0.315	0.315	1.38		
	soling										
	PCC								0.00		
	Murrum bedding								0.00		
									1.44		
									2.82		
11/8/16	D14.1 TO D14.2	Net Qty = A - B						37.708	0.000	37.708	
	CH19.40	574.544	572.624	572.524			2.020	2.115			
	CH33.60	575.184	573.074	572.974			2.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.500	1.215	1.115	15.579	24.137	39.717	
	Item No. 2 :- Excavation for										
	(a) For Lift 0 to 1.5m	1			11.500	1.215	0.385	5.379	7.210	12.589	
	(b) For Lift 1.5m to 3.0m	1			11.500	0.815	0.615	5.764	9.182	14.946	



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

Book No. :- **138**
Page No. :-

Page 2 of 10

Dashmesh Nagar Measurement MB-315mm

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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.500	0.815	0.100	1.019		1.443	2.461
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.992		2.821	4.814
	Item No. 13 :- (d)Lowering & Laying of DWC pipe of 315mm Dia	1			13.000			13.000		18.200	31.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.723			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	12.500	0.315	0.315	0.974			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.019			
								1.992			
								Net Qty = A - B			
								24.730		37.708	62.438
8/16	D14.2 TO D14.3										
	CH33.60	575.184	573.074	572.974			2.210				
	CH43.10	575.004	573.334	573.234			1.770	1.990			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.800	1.215	0.990	8.179		39.717	47.896
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.800	1.215	0.510	4.214		12.589	16.803
	(b) For Lift 1.5m to 3.0m	1			6.800	0.815	0.490	2.716		14.946	17.661
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.800	0.815	0.100	0.636		2.461	3.097
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.243		4.814	6.057
	Item No. 13 :- (d)Lowering & Laying of DWC pipe of 315mm Dia	1			8.300			8.300		31.200	39.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							15.109			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	7.800	0.315	0.315	0.608			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.636			
								1.243			
								Net Qty = A - B			
								13.865		62.438	76.303
8/16	D14.3 TO D14.4										
	CH43.10	575.004	573.334	573.234			1.770				
	CH71.20	575.344	573.644	573.544			1.800	1.785			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book



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

Book No. :-

Page No. :-

147

Page 4 of 10

Dashmesh Nagar Measurement MB-315mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1.00		0.785	15.300	0.315	0.315	1.192			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.247			
								2.439			
								27.527			
									124.287	151.814	
11/6	D14.5 TO D14.6										
	CH88.20	575.744	573.974	573.874			1.870				
	CH103.80	575.944	574.074	573.974			1.970	1.920			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	1.215	1.500	23.510	86.630	110.140	
	(b) For Lift 1.5m to 3.0m	1			12.900	0.815	0.420	4.416	0.000	4.416	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.900	0.815	0.100	1.133	6.496	7.628	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.216	12.704	14.919	
	Item No. 13 :- (d) Lowering & Laying of DWC pipe of 315mm Dia	1			14.400			14.400	82.200	96.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.926			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	13.900	0.315	0.315	1.083			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.133			
								2.216			
								25.710			
									151.814	177.524	
11/6	D14.6 TO D14.7										
	CH103.80	575.944	574.074	573.974			1.970				
	CH121.80	576.234	574.174	574.074			2.160	2.065			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.300	1.215	1.190	22.122	110.140	132.261	
	(b) For Lift 1.5m to 3.0m	1			15.300	0.815	0.165	2.057	4.416	6.473	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.300	1.215	0.260	4.833	50.422	55.256	
	(b) For Lift 1.5m to 3.0m	1			15.300	0.815	0.400	4.988	27.466	32.453	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.300	1.215	0.050	0.929	0.000	0.929	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.300	0.815	0.100	1.328	7.628	8.957	



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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

Book No. :- **149**
Page No. :-

Page 3 of 6

Dashmesh Nagar CHAMBER Measure

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(A)=						11.159				
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.700	2.29			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)						3.04				
	Net Qty = A - B						8.115		18.004	26.120	
	D14.5										
	CH88.20	575.744	573.974	573.724			2.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.500	8.584	19.782	28.366	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.520	2.976	0.000	2.976	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.138	11.388	14.526	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						11.560				
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.770	2.38			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)						3.14				
	Net Qty = A - B						8.421		26.120	34.541	
	D14.6										
	CH103.80	575.944	574.074	573.824			2.120				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.500	8.584	28.366	36.950	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.620	3.548	2.976	6.524	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.273	14.526	17.799	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						12.132				
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.870	2.52			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)						3.27				
	Net Qty = A - B						8.859		34.541	43.400	
	D14.7										
	CH121.80	576.234	574.174	573.924			2.310				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.190	6.810	36.950	43.760	



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