



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 CDDM pipe line from Golwadi SDS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :- 127

Page No. :-

3 of 3

Balaji Nagar-07 - SW Pipe250

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			3.450	0.790	0.810	2.208		10.249	12.457
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.450	0.790	0.150	0.409		1.807	2.216
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.050	0.790	0.100	0.320		1.323	1.643
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.552		2.282	2.834
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			4.550			4.550		18.000	22.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.616			
	Deduction										
	pipe area	1		0.785	4.050	0.270	0.270	0.232			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.320			
								0.552			
								2.065		9.775	11.840
	BJ 4 to BJ 5										
	CH25.95	583.270	582.450	582.350			0.920	0.905			
	CH29.55	583.360	582.570	582.470			0.890				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.600	0.790	0.755	0.954		12.457	13.411
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.600	0.790	0.150	0.190		2.216	2.406
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.200	0.790	0.100	0.174		1.643	1.817
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.300		2.834	3.133
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			2.700			2.700		22.550	25.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.144			
	Deduction										
	pipe area	1		0.785	2.200	0.270	0.270	0.126			
	soling							0.000			
	PCC							0.174			
	Murrum bedding							0.300			
								0.844		11.840	12.684



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

1 of 3

Balaji Nagar-07 - SW Pipe

14th RA BILL MEASUREMENTS PIPE BALAJI NAGAR-07

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										
	BN Old to BN 1										
	CH0.00	582.110	580.910	580.810			1.300	1.175			
	CH10.00	582.520	581.570	581.470			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			8.150	0.740	1.175	7.086	13.411	20.498	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.150	0.740	0.000	0.000	2.406	2.406	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.450	0.740	0.100	0.625	1.817	2.442	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.946	3.133	4.080	
	Extra Item 9.2 (c) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.950			8.950	0.000	8.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.086			
	Deduction										
	pipe area	1		0.785	8.450	0.220	0.220	0.321			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.625			
								0.946			
	Net Qty = A - B							6.140	12.684	18.824	
	BN 1 to BN 2										
	CH10.00	582.520	581.570	581.470			1.050	1.175			
	CH16.00	582.940	581.740	581.640			1.300				
	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	1.175	3.478	20.498	23.976	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340	2.442	2.783	



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Book No. :-

Page No. :- **131**

1 of 4

Balaji Nagar-07 - Meas.Chamber

11th RA BILL MEASUREMENTS OF CHAMBERS BALAJI NAGAR-07

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 BN 1										
	CH10.00	582.520	581.570	581.320			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	1.200	3.768	0.000	3.768	
	Item No. : 11 Transportation of earth Transportation charges							1.576	0.000	1.576	
	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	0.000	2.192	
	BN 2										
	CH16.00	582.940	581.740	581.490			1.450				
	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	1.450	4.553	3.768	8.321	
	Item No. : 11 Transportation of earth Transportation charges							1.859	1.576	3.435	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.553			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.200	1.356			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.859			
	Net Qty = A - B							2.694	2.192	4.886	
	BN 3										
	CH22.50	583.080	581.980	581.730			1.350				
	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	4.000	1.350	4.239	8.321	12.560	



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Book No. :- **132**
Page No. :-

2 of 4

Balaji Nagar-07 - 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							1.746		3.435	5.181
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.239			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.100	1.243			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.746			
		Net Qty = A - B							2.493	4.886	7.379
	BN 4										
	CH32.50	583.220	582.320	582.070			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	1.150	3.611		12.560	16.171
	Item No. : 11 Transportation of earth Transportation charges							1.520		5.181	6.701
	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	7.379	9.470
	Part-II BJ 1										
	CH7.00	582.550	581.730	581.480			1.070				
	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		16.171	19.060
	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							1.429		6.701	8.130
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.360			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.820	0.927			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.429			
		Net Qty = A - B							1.930	9.470	11.401
	BJ 2										



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Book No. :-

Page No. :-

133

3 of 4

Balaji Nagar-07 - 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							
CH14.90		583.050	582.110	581.860			1.190				
	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	1.040	3.266	19.060	22.325	
	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							1.565	8.130	9.695	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.737			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.940	1.063			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.565			
	Net Qty = A - B							2.172	11.401	13.572	
BJ 3											
CH20.50		583.210	582.310	582.060			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	1.000	3.140	22.325	25.465	
	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							1.520	9.695	11.215	
	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	13.572	15.664	
BJ 4											
CH25.95		583.270	582.450	582.200			1.070				
	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	25.465	28.354	
	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	



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Book No. :- 134
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

4 of 4

Balaji Nagar-07 - Meas.Chamber

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Item No. : 11 Transportation of earth Transportation charges						1.429		11.215	12.644
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						3.360			
	Deduction									
	Brick work	1		0.785	1.200	1.200	0.820	0.927		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	Total (B)						1.429			
							1.930		15.664	17.594
	BJ 5									
	CH29.55	583.360	582.570	582.320			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	0.890	2.795	28.354	31.149
	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
	Item No. : 11 Transportation of earth Transportation charges							1.395	12.644	14.040
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							3.266		
	Deduction									
	Brick work	1		0.785	1.200	1.200	0.790	0.893		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	Total (B)						1.395			
							1.870		17.594	19.464



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Book No. :- 135
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

1 of 1

Balaji Nagar-07 - Manhole Details

11th R A BILL MEASUREMENTS								
Branch Sewer at BALAJI NAGAR-07								
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								
1	CH 10.00	MP 1	582.520	581.570	0.950	-0.550	-5.080	-16.933 ✓
2	CH 16.00	MP 2	582.940	581.740	1.200	-0.300		
3	CH 22.50	MP 3	583.080	581.980	1.100	-0.400		
4	CH 32.50	MP 4	583.220	582.320	0.900	-0.600		
Part-II								
1	CH 7.00	MP 1	582.550	581.730	0.820	-0.680	-5.080	-16.933 ✓
2	CH 14.90	MP 2	583.050	582.110	0.940	-0.560		
3	CH 20.50	MP 3	583.210	582.310	0.900	-0.600		
4	CH 25.95	MP 4	583.270	582.450	0.820	-0.680		
5	CH 29.55	MP 5	583.360	582.570	0.790	-0.710		
Total							-5.080	-16.933 ✓



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Book No. :- **136**

Page No. :-

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

Balaji Nagar-07 Quantity Node Abstract

12th R A BILL MEASUREMENTS

Branch Sewer at BALAJI NAGAR-07

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 7	ITEM 11	ITEM 30	ITEM 35	EIRL 2 Full Rate	EIRL 2.a Rebate	EIRL 9.1			EIRL 9.2	
			0-1.5	34.650	0-1.5	2.406							3.797	6.129	30.927	0.025	28.750
1	For Pipe													28.750	25.250	28.750	25.250
2	For Manhole										9.000	(16.933)					
Total											9.000	(16.933)		28.750	25.250	28.750	25.250



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Book No. :- **139**
Page No. :-

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

Authority No. AMC/Ward B&C/UIDSSM1/2014/184 Date 01.07.2014

Page 1 of 1

Pratap Nagar Chamber Meas.

12th RA BILL MEASUREMENTS

Date	Particulars of work	Pratap Nagar DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	SW Pipe - 250mm Dia										
	Excavation of Chamber - For 0.9 mt.Dia of chamber up to Depth of 1.5mt- 0.9+0.5+0.3+0.3=2.0m										
	Area for chamber up to Depth of 1.5m= 2 * 2=4m										
	PT1										
	CH5.20	563.715	562.805	562.555			1.160				
	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	1.160	3.642	0.000	3.642	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.531	0.000	1.531	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)= "							3.642			
	Deduction of 250mm dia pipe										
	Brick work	1.00		0.785	1.200	1.200	0.910	1.03			
	soling							0.00			
	PCC	1.00		0.785	1.600	1.600	0.250	0.50			
	Murrum bedding							0.00			
	Total (B)							1.53			
					Net Qty = A - B			2.111	0.000	2.111	
	PT2										
	CH20.00	564.115	562.945	562.695			1.420				
	Extra Item No. 4 e) i) Providing & Fixing in Position SFRC manhole cover with Frame of circular Manhole							1.000		1.000	



Signature
Secy. Eng



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. :- 147
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

Page 1 of 1

Pratap Nagar CHAMBER

14th RA BILL CHAMBER DETAILS

Pratap Nagar

SR NO	CHAINAGE	CHAMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm	
			GL	IL	DEPTH			
A	Extra Item No. :2 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	CH5.20	PT1	563.715	562.805	0.910	1.5	-0.590	-1.97
		Total					-0.590	-1.97



Signature
Secretary



AURANGABAD MUNICIPAL CORPORATION

(From No.52)

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Book No. :-

Page No. :-

141

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

Pratap Nagar Quantity Abstract

QUANTITY ABSTRACT													Last
Pratap Nagar													
SR NO	Description	MB/PG	ITEM 1	ITEM 7	ITEM 11	ITEM 30	ITEM 35	Extra Item 2	Extra Item 2.a	Extra Item 4	Extra Item No.9.1	Extra Item No.9.2	
1	For Pipe		0-1.5 14.713	1.414	2.438	12.275	0.038	0-1.5 m	Rebate	e(i)	250mm	250mm	
2	For Manhole		3.642		1.531	2.111		1.000	-1.967	1.000		18.900	
	Total		18.355	1.414	3.970	14.386	0.038	1.000	-1.967	1.000	18.900	18.900	



Secretary



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Book No. :-

Page No. :- **142**

1 of 2

MIDC Office Road - Pipe Measurement

11th RA BILL MEASUREMENTS SW PIPE MIDC OFFICE ROAD At ~~Pithand 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 PIPE - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.110m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
3/3/16	MR 1 to MR 2										
	CH0.00	568.780	567.720	567.620			1.160	1.070			
	CH12.80	569.000	568.120	568.020			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			10.800	0.700	1.070	8.089	0.000	8.089	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.400	0.700	0.100	0.798	0.000	0.798	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.156	0.000	1.156	
	Item No.12 (b) :-Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.900			11.900	0.000	11.900	
	Item No. 30 :- Refilling the excavated trenches ...							8.089			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	11.400	0.200	0.200	0.358			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.798			
								1.156			
	Net Qty = A - B							6.933	0.000	6.933	
3/3/16	MR 2 to MR 3										
	CH12.80	569.000	568.120	568.020			0.980	1.025			
	CH27.20	569.390	568.420	568.320			1.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.400	0.700	1.025	8.897	8.089	16.986	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.000	0.700	0.100	0.910	0.798	1.708	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.318	1.156	2.474	



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(From No.52)

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Book No. :- 143
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

2 of 2		MIDC Office Road - Pipe Measurement										Last	
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.12 (b) :-Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			13.500			13.500		11.900	25.400		
	Item No. 30 :- Refilling the excavated trenches ...												
	Total Excavation=							8.897					
	Deduction												
	pipe area	1		0.785	13.000	0.200	0.200	0.408					
	soling							0.000					
	PCC							0.000					
	Murum bedding							0.910					
								1.318					
								Net Qty = A - B		6.933	14.512		
15/16	MR 3 to MR 4							7.579					
	CH27.20	569.390	568.420	568.320									
	CH30.30	569.380	568.430	568.330			1.070	1.060					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.												
	(a) For Lift 0 to 1.5m :-	1			1.100	0.700	1.060	0.816		16.986	17.802		
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.700	0.700	0.100	0.119		1.708	1.827		
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.172		2.474	2.647		
	Item No.12 (b) :-Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			2.200			2.200		25.400	27.600		
	Item No. 30 :- Refilling the excavated trenches ...												
	Total Excavation=							0.816					
	Deduction												
	pipe area	1		0.785	1.700	0.200	0.200	0.053					
	soling							0.000					
	PCC							0.000					
	Murum bedding							0.119					
								0.172					
								Net Qty = A - B		14.512	15.156		



Sec. Eng



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :- **144**
Page No. :-

1 of 2

MIDC Office Road - Meas.Chamber

19th R A BILL MEASUREMENTS OF CHAMBERS MIDC OFFICE ROAD

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										
	MR 1										
	CH0.00	568.780	567.720	567.470			1.310				
	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	1.310	4.113	0.000	4.113	
	Item No. : 11 Transportation of earth Transportation charges							1.597	0.000	1.597	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.113			
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.060	1.120			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.597			
								Net Qty = A - B	2.516	0.000	
	MR 2										
	CH12.80	569.000	568.120	567.870			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	1.130	3.548	4.113	7.662	
	Item No. : 11 Transportation of earth Transportation charges							1.407	1.597	3.004	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.548			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.880	0.930			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.407			
								Net Qty = A - B	2.141	2.516	
	MR 3										
	CH27.20	569.390	568.420	568.170			1.220				
	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	1.220	3.831	7.662	11.492	





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :-
Page No. **145**

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

2 of 2

MIDC Office Road - Meas.Chember

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. : 11 Transportation of earth Transportation charges							1.502		3.004	4.507
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.831			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.970	1.025			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.502			
		Net Qty = A - B								4.657	6.986
	MR 4										
	CH30.30	569.380	568.430	568.180			1.200				
	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		11.492	15.260
	Item No. : 11 Transportation of earth Transportation charges							1.481		4.507	5.988
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.768			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.950	1.003			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.481			
		Net Qty = A - B								6.986	9.273



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Book No. :- **146**
Page No. :-

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

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

1 of 1

MIDC Office Road - Manhole Details

14th RA BILL MEASUREMENTS								
Branch Sewer at MIDC OFFICE ROAD								
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 0.00	MR 1	568.780	567.720	1.060	-0.440	-2.140	-7.133
2	CH 12.80	MR 2	569.000	568.120	0.880	-0.620		
3	CH 27.20	MR 3	569.390	568.420	0.970	-0.530		
4	CH 30.30	MR 4	569.380	568.430	0.950	-0.550		
Total								-7.133



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Book No. :-

Page No. :- **147**

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

MIDC Office Road Quantity Node Abstract

12th R A BILL MEASUREMENTS

Branch Sewer at MIDC OFFICE ROAD

SR NO	Description	MB/PG	ITEM 1		ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 30	EIRL 2	
			0-1.5	17.802			200mm	27.600			Full Rate	Rebate
1	For Pipe			17.802	1.827	2.647	27.600	27.600	15.156		4.000	
2	For Manhole			15.260		5.988			9.273		4.000	(7.133)
	Total			33.063	1.827	8.634	27.600	27.600	24.429		4.000	(7.133)



Signature
Sec. Eng.