



# 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.

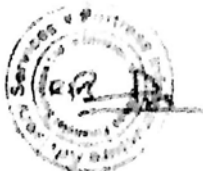
Book No. : 141  
Page No. :

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

Ward No 98 RCC 1.5m MH

Page 7 of 11

Date	Particulars of work	DETAILS						Content of affairs	Last measurement		Total upto Date Quantity
		No			I	II	D		Page	Quantity	
		GL	II	EX.L							
	<b>WNH 40</b>										
	<b>CH1741.30</b>	543.050	540.190	539.840			3.210				
	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	0.410	1.500	9.904	127.416	147.316	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	1.000	6.602	76.228	84.071	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.500	3.301	52.617	85.910	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	0.210	1.386	25.319	26.605	
	Item No. : 11 Transportation of earth Transportation charges							9.634	109.460	119.094	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>21.192</b>			
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	2.860	0.105			
	Raft	1		0.785	2.300	2.300	0.250	1.010			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								<b>9.654</b>			
	<b>Net Qty = A - B</b>								<b>105.440</b>	<b>197.006</b>	
	<b>WNH 41</b>										
	<b>CH1785.00</b>	543.650	540.520	540.170			3.480				
	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	0.410	1.500	9.904	117.416	147.316	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.140	2.245	84.071	87.110	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	1.160	7.650	55.910	63.576	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	0.400	3.169	26.605	29.771	
	Item No. : 11 Transportation of earth Transportation charges							10.399	119.094	129.493	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>23.974</b>			
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	3.110	0.070			
	Raft	1		0.785	2.300	2.300	0.250	1.010			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								<b>10.399</b>			
	<b>Net Qty = A - B</b>								<b>197.006</b>	<b>209.582</b>	
	<b>WNH 42</b>										
	<b>CH1871.20</b>	543.850	541.220	540.870			2.980				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	0.410	0.000	0.000	16.507	56.005	
	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	0.410	0.210	1.386	147.271	148.657	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.000	0.000	87.318	87.318	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	0.000	0.000	0.290	0.290	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- 142  
Page No. :-

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.

Ward No 98 RCC 1.5m MH

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.290	8.516		4.621	13.138
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.480	9.771		63.576	73.347
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		29.774	29.774
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.000	0.000		5.513	5.513
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		7.922	7.922
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		18.155	18.155
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.000	0.000		2.502	2.502
	<b>Item No. : 11</b> Transportation of earth Transportation charges							8.982		129.432	138.414
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							19.674			
	<b>Deduction</b>										
	Wall	1			0.785	1.900	1.900	2.630	7.453		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								8.982			
	<b>Net Qty = A - B</b>							10.692		209.582	220.274
	<b>WNH 43</b>										
	CH1904.90	546.065	541.301	540.951			5.114				
	<b>Item No. 3 :-</b> Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.000	0.000		16.505	16.505
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.377	2.489		148.608	151.097
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		87.118	87.118
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		0.290	0.290
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.123	7.414		13.138	20.552
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		73.347	83.249
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.977	6.450		29.774	36.224
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.000	0.000		5.513	5.513
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		7.922	7.922
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.523	3.453		18.155	21.608
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.614	4.054		2.502	6.556
	<b>Item No. : 11</b> Transportation of earth Transportation charges							15.029		138.414	153.443
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							33.762			
	<b>Deduction</b>										
	Wall	1			0.785	1.900	1.900	4.764	13.500		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								15.029			
	<b>Net Qty = A - B</b>							18.733		220.274	239.006





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

Book No. :- **143**  
Page No. :-

Ward No 98 RCC 1.5m MH

Page 9 of 11

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>WNH 44</b>										
	CH1963.60	546.441	541.908	541.558			4.883				
	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	8.410	1.000	6.602	151.097	157.698	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	20.552	23.852	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	83.249	93.152	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.018	6.721	36.224	42.945	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.482	3.182	21.608	24.790	
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.383	2.529	6.556	9.084	
	Item No. : 11 Transportation of earth Transportation charges							14.375	153.443	167.818	
	Item No. 30 :- Refilling the							32.237			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	4.533	12.846			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								14.375			
	<b>Net Qty = A - B</b>							17.862	239.006	256.868	
	<b>WNH 45</b>										
	CH2022.30	547.006	542.862	542.512			4.494				
	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	8.410	1.100	7.262	157.698	164.960	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.400	2.641	23.852	26.493	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	93.152	103.055	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.834	5.506	42.945	48.451	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.660	4.357	24.790	29.147	
	Item No. : 11 Transportation of earth Transportation charges							13.272	167.818	181.090	
	Item No. 30 :- Refilling the excavated trenches ...							29.669			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	4.144	11.743			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								13.272			
	<b>Net Qty = A - B</b>							16.396	256.868	273.265	
	<b>WNH 46</b>										
	CH2073.50	548.017	543.617	543.267			4.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.800	5.281	164.960	170.242	



29



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book



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

Book No. :- 144  
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

Ward No 98 RCC 1.5m MH

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.				0.785	8.410	0.700	4.621		26.493	31.115
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903		103.055	112.958
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		48.451	58.354
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.250	1.650		5.513	7.163
	(d) For Lift 4.5m to 6.0m	1									
	Item No. : 11 Transportation of earth Transportation charges							13.998		181.090	195.088
	Item No. 30 :- Refilling the excavated trenches ...							31.359			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	4.400	12.469			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								13.998			
	<b>Net Qty = A - B</b>							17.361		273.265	290.626
	<b>WNH 47</b>										
	CH2122.20	548.910	544.617	544.267			4.643				
	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	8.410	0.700	4.621		170.242	174.863
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.800	5.281		31.115	36.396
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		112.958	122.860
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.500	9.903		58.354	68.257
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.143	0.944		7.163	8.107
	Item No. : 11 Transportation of earth Transportation charges							13.695		195.088	208.783
	Item No. 30 :- Refilling the excavated trenches ...							30.652			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	4.293	12.166			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								13.695			
	<b>Net Qty = A - B</b>							16.958		290.626	307.584
	<b>WNH 48</b>										
	CH2150.90	549.611	545.557	545.207			4.404				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.000	0.000		16.505	16.505
	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	8.410	1.000	6.602		174.863	181.465
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		87.118	87.118
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		0.290	0.290



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(From No.52)

## Measurement Book

Book No. :-

Page No. :- 145

**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 (RPM) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City

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

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

### Details

Last

Page 11 of 11

Ward No 98 RCC 1.5m MH

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	8.410	0.500	3.301	36.396	39.697	
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903	122.860	132.763	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.404	9.269	68.257	77.526	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000	8.107	8.107	
	(d) For Lift 4.5m to 6.0m	1									
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.				0.785	8.410	0.000	0.000	7.922	7.922	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000	29.147	29.147	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000	9.084	9.084	
	(d) For Lift 4.5m to 6.0m	1									
	<b>Item No. : 11</b> Transportation of earth Transportation charges							13.017	208.783	221.800	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							29.075			
	<b>Deduction</b>										
	Wall	1		0.785	1.900	1.900	4.054	11.488			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								13.017			
	<b>Net Qty = A - B</b>							16.057	307.584	323.641	



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Book No. :-  
Page No. :- **147**

**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	Details						Last Measurement		Total upto

Ward No 98 BBM 1.5m MH

Page 2 of 2

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.732	5.884		49.343	55.227
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.768	6.173		141.605	147.779
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000		77.526	77.526
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		8.107	8.107
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.732	5.884		11.138	17.022
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.268	2.154		29.147	31.301
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		9.084	9.084
	<b>ITEM No. 5 :-</b> Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.232	9.903		12.058	21.961
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		4.180	4.180
	<b>Item No. : 11</b> Transportation of earth Transportation charges							14.440		238.362	252.802
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							36.173			
	<b>Deduction</b>										
	Brick work	1			0.785	2.280	2.280	2.050	8.366		
	PCC	1			0.785	1.540	1.540	2.000	3.723		
	Soling	1			0.785	2.580	2.580	0.250	1.306		
		1			0.785	2.580	2.580	0.200	1.045		
								14.440			
	<b>Net Qty = A - B</b>							21.732		347.432	369.164



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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 Seven Aa Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Jalta, Padegaon, CHCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHCO (Airport). Providing, lowering, laying jointing and testing rising main G.R.P.M pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) S.T.P and Ward No.98 to S.T.P for Aurangabad City.

Book No. :- 143  
Page No. :-

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

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

Ward No 98 MANHOLE

Page 1 of 1

### 12th R A BILL MEASUREMENTS

#### Ward No 98

Extra Item No. 1: Construction of RCC circular Manhole of 1.5m dia & 3.5m depth

Sr.No.	Reference (MB no. & Page no.)	MH No	Chainage	MTL	IL	Depth	Depth Difference than 3.5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
<b>400mm Dia - Near Walmi</b>									
1		WNC 2	76.200	532.612	528.112	4.50	1.00	51.19	102.38
2		WNC 3	132.400	532.890	528.390	4.50	1.00		
3		WNC 4	171.100	533.010	528.510	4.50	1.00		
4		WNC 5	224.800	533.250	528.650	4.60	1.10		
5		WNC 6	288.500	533.410	529.160	4.25	0.75		
6		WNC 7	332.200	534.150	529.850	4.30	0.80		
7		WNC 8	373.400	533.970	529.970	4.00	0.50		
8		WNC 9	452.100	534.370	530.320	4.05	0.55		
9		WNC 10	488.300	534.530	530.830	3.70	0.20		
10		WNC 24	1130.100	540.990	535.090	5.90	2.40		
11		WNC 25	1191.300	540.930	535.230	5.70	2.20		
12		WNC 26	1252.500	541.400	535.500	5.90	2.40		
13		WNC 27	1306.200	542.811	536.161	6.65	3.15		
14		WNC 28	1347.400	543.500	536.900	6.60	3.10		
<b>400mm Dia - Hindustan Awasi II</b>									
15		WNH 39	1710.100	545.250	539.400	5.85	2.35		
16		WNH 40	1741.300	545.940	540.190	5.75	2.25		
17		WNH 41	1785.000	547.270	540.520	6.75	3.25		
18		WNH 42	1871.200	547.970	541.220	6.75	3.25		
19		WNH 43	1904.900	548.101	541.301	6.80	3.30		
20		WNH 44	1963.600	548.708	541.908	6.80	3.30		
21		WNH 45	2022.300	549.712	542.862	6.85	3.35		
22		WNH 46	2073.500	550.467	543.617	6.85	3.35		
23		WNH 47	2122.200	551.457	544.617	6.84	3.34		
24		WNH 48	2150.900	552.357	545.557	6.80	3.30		

Item No. 23:- Providing and constructing on sewer.BBM manhole 1.5 m dia at bottom and 0.5 m dia at top and up to a depth of 2 to 5.0 M

Sr.No.	Reference (MB no. & Page no.)	MH No	Chainage	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
<b>500mm Dia - Hindustan Awasi I</b>									
1		WNH 12	583.800	535.720	531.370	4.350	-0.650	-1.60	-3.20
2		WNH 13	614.400	536.525	532.475	4.050	-0.950		



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- **149**

Page No. :-

**Line 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 Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main R.P.D.I pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 STP for Aurangabad City.

**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

Ward No 98-Dewatering

Page 1 of 2

12th R A BILL MEASUREMENTS							
Ward No 98 - Dewatering							
Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
400mm Dia - Near STP at Paithan Road Crossing							
1	11/07/2016	15	1	7:00	10:00	3:00	45:00:00
		15	1	15:00	17:00	2:00	30:00:00
2	11/08/2016	15	1	8:00	9:30	1:30	22:30:00
		15	1	10:00	11:30	1:30	22:30:00
		15	1	13:35	15:30	1:55	28:45:00
3	11/09/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	12:00	13:00	1:00	15:00:00
		15	1	14:00	16:00	2:00	30:00:00
4	11/10/2016	15	1	8:10	9:30	1:20	20:00:00
		15	1	12:00	15:00	3:00	45:00:00
5	11/11/2016	15	1	7:30	8:35	1:05	16:15:00
		15	1	9:00	11:00	2:00	30:00:00
		15	1	14:00	15:30	1:30	22:30:00
		15	1	16:00	17:30	1:30	22:30:00
6	11/12/2016	15	1	7:00	9:00	2:00	30:00:00
		15	1	10:00	11:40	1:40	25:00:00
		15	1	13:00	14:00	1:00	15:00:00
7	14/11/2016	15	1	10:00	11:30	1:30	22:30:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
8	15/11/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
9	16/11/2016	15	1	7:30	8:30	1:00	15:00:00
		15	1	9:00	9:30	0:30	7:30:00
		15	1	14:00	14:30	0:30	7:30:00
		15	1	15:00	16:00	1:00	15:00:00
10	17/11/2016	15	1	7:00	9:00	2:00	30:00:00
		15	1	15:00	17:00	2:00	30:00:00
11	18/11/2016	15	1	7:30	9:00	1:30	22:30:00
		15	1	10:00	11:00	1:00	15:00:00
		15	1	14:00	16:00	2:00	30:00:00
12	19/11/2016	15	1	7:30	9:00	1:30	22:30:00
		15	1	10:00	11:00	1:00	15:00:00
		15	1	15:00	17:30	2:30	37:30:00



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :- **157**  
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 2 of 2

Ward No 98-Dewatering

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
13	21/11/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	11:00	1:00	15:00:00
		15	1	15:00	17:30	2:30	37:30:00
14	22/11/2016	15	1	8:00	11:00	3:00	45:00:00
		15	1	14:00	14:30	0:30	7:30:00
		15	1	7:30	8:00	0:30	7:30:00
15	23/11/2016	15	1	9:00	10:00	1:00	15:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	15:30	17:00	1:30	22:30:00
16	24/11/2016	15	1	8:20	10:00	1:40	25:00:00
		15	1	15:00	17:00	2:00	30:00:00
		15	1	7:00	8:30	1:30	22:30:00
17	25/11/2016	15	1	14:00	15:30	1:30	22:30:00
		15	1	16:00	17:30	1:30	22:30:00
		15	1	7:45	9:00	1:15	18:45:00
18	26/11/2016	15	1	11:00	13:00	2:00	30:00:00
		15	1	16:00	17:00	1:00	15:00:00
		15	1	7:00	9:00	2:00	30:00:00
19	27/11/2016	15	1	10:00	11:00	1:00	15:00:00
		15	1	16:45	17:30	0:45	11:15:00
		15	1	7:00	8:00	1:00	15:00:00
20	28/11/2016	15	1	10:00	11:00	1:00	15:00:00
		15	1	15:00	17:00	2:00	30:00:00
		<b>Total</b>					
							<b>1277.500</b>



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# AURANGABAD MUNICIPAL CORPORATION

(From No.52)

## Measurement Book

Book No. :-  
Page No. :- **151**

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

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

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

Date of Measurement	13th R A BILL MEASUREMENTS Ward No 98												Last Measurement		Total up to Date		
	ITEM 1			ITEM 2			ITEM 3			ITEM 4			Page No.	Quantity			
	SR NO	Description	MB/PG	0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	4.5-6	0-1.5	1.5-3.0	3.0-4.5	4.5-6	8	9	10
	1	For Pipe	1,176,311	130,906	584,196	1,134,717	638,145	15,219	60,114	36,088	95,955	16,315					
	2	For Manhole	190,050	87,118	55,227	147,779	77,526	8,107	16,505	17,022	31,301	9,084					
	<b>Total</b>		<b>1,366,361</b>	<b>218,024</b>	<b>639,423</b>	<b>1,282,496</b>	<b>715,671</b>	<b>23,326</b>	<b>76,619</b>	<b>53,109</b>	<b>127,256</b>	<b>25,399</b>					





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :- 152  
Page No. :-

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

**Authority No.:** 111/2014/D/CC/TH/SSCM/701/183 Date 01/07/2014

Date of Measurement	
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Page 2 of 2

### 11th R A BILL MEASUREMENTS

Ward No 98

SR NO	Description	MB/PG	ITEM 5		ITEM 6	ITEM 7	ITEM 10	ITEM 11	ITEM 17		ITEM 23	ITEM 23.1		ITEM 30	EIRL 1	EIRL 1.a		EIRL 5
			3-4.5	4.5-6					400mm	500mm		2-5 m	Rebate			3.5m	Rebate	
1	For Pipe		45.240		48.999	132.590	1,277.500	114.311	680.000	30.000				3,589.757				28.643
2	For Manhole		21.961	4.180				252.802			2.00	(3.200)		369.164	24.000			
<b>Total</b>			67.201	4.180	48.999	132.590	1277.500	367.113	680.000	30.000	2.000	-3.200	3958.921	24.000	102.380			28.643

SR



Last measurement		Total up to Date
Quantity		
9		10



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salwa Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHCO (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. :- **153**

Page 1 of 3

Kanchanwadi Dakshin Vihar Meas. SW Pipe

### 11th R A BILL MEASUREMENTS SW PIPE KANCHANWADI NEAR DAKSHIN VIHAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>SW PIPE - 150 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.150+0.02+0.02+0.5=0.690m										
	For Lift 1.5 to 3.00m- 0.150+0.02+0.02+0.5+0.4= 1.090m										
	For Lift 3.0 to 4.5m- 0.150+0.5+0.02+0.02+0.4+0.4= 1.490m										
28/10/16	<b>KD 1 to KD 1.1</b>						0.650				
	CH0.00	546.150	545.600	545.500			0.700				
	CH5.55	546.300	545.650	545.550			0.750				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.450	0.690	0.700	2.149	0.000	2.149	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.450	0.690	0.100	0.307	0.000	0.307	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							0.408	0.000	0.408	
	<b>Extra Item No. 9.2 (a):-</b> Lowering & Laying of SWG pipe of 150mm Dia	1			4.800			4.800	0.000	4.800	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...							2.149			
	<b>Total Excavation=</b>							2.149			
	<b>Deduction of 150mm dia pipe</b>										
	pipe area	1.00		0.785	4.450	0.170	0.170	0.101			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.307			
								0.408			
								1.741	0.000	1.741	
	<b>Net Qty = A - B</b>							1.741	0.000	1.741	
8/11/16	<b>Cross Connection</b>										
	CH0.00	546.900	546.300	546.200			0.700	0.775			
	CH5.85	547.100	546.350	546.250			0.850				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.150	0.690	0.775	2.754	2.149	4.903	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.150	0.690	0.100	0.355	0.307	0.662	







# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salm Ali. Constructing, Freeting, 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. :- 154  
Page No. :-

Page 2 of 3

Kanchanwadi Dakshin Vihar Meas. SW 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							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.472		0.408	0.880
	Extra Item No. 9.2 (a):- Lowering & Laying of SWG pipe of 150mm Dia	1			5.400			5.400		4.800	10.200
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>										
	<b>Deduction of 150mm dia pipe</b>							2.754			
	pipe area										
	soling	1.00		0.785	5.150	0.170	0.170	0.117			
	PCC							0.000			
	Murrum bedding							0.000			
								0.355			
								0.472			
	<b>Net Qty = A - B</b>							2.282		1.741	4.023
	CH0.00	547.200	546.400	546.300							
	CH4.35	547.250	546.500	546.400			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						0.850	0.875			
	(a) For Lift 0 to 1.5m	1			3.250	0.690	0.875	1.962		4.903	6.866
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.250	0.690	0.100	0.224		0.662	0.887
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.298		0.880	1.178
	Extra Item No. 9.2 (a):- Lowering & Laying of SWG pipe of 150mm Dia	1			3.600			3.600		10.200	13.800
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.962			
	<b>Deduction of 150mm dia pipe</b>										
	pipe area										
	soling	1.00		0.785	3.250	0.170	0.170	0.074			
	PCC							0.000			
	Murrum bedding							0.000			
								0.224			
								0.298			
	<b>Net Qty = A - B</b>							1.664		4.023	5.687
	CH0.00	547.300	546.800	546.700			0.600				
	CH4.05	547.400	546.850	546.750			0.650	0.625			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.350	0.690	0.625	1.445		6.866	8.310



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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. :- 155

**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

Page 3 of 3

Kanchanwadi Dakshin Vihar Meas. SW 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							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.350	0.690	0.100	0.231		0.887	1.118
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.307		1.178	1.485
	Extra Item No. 9.2 (a):- Lowering & Laying of SWG pipe of 150mm Dia	1			3.600			3.600		13.800	17.400
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.445			
	<b>Deduction of 150mm dia pipe</b>										
	pipe area	1.00		0.785	3.350	0.170	0.170	0.076			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.231			
								0.307			
								<b>Net Qty. = A - B</b>		1.138	5.687
	<b>Cross Connection</b>										6.825
	CH0.00	547.400	546.700	546.600			0.800				
	CH5.25	547.450	546.900	546.800			0.650	0.725			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.550	0.690	0.725	2.276		8.310	10.586
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.550	0.690	0.100	0.314		1.118	1.432
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.417		1.485	1.902
	Extra Item No. 9.2 (a):- Lowering & Laying of SWG pipe of 150mm Dia	1			4.800			4.800		17.400	22.200
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							2.276			
	<b>Deduction of 150mm dia pipe</b>										
	pipe area	1.00		0.785	4.550	0.170	0.170	0.103			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.314			
								0.417			
								<b>Net Qty. = A - B</b>		1.859	6.825
											8.684



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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.

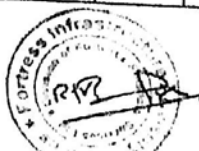
Book No. :- 150  
Page No. :-

1 of 15

Kanchanwadi Dakshin Vihar - Meas. Pipe

### 144th RA BILL MEASUREMENTS DWC PIPE KANCHANWADI NEAR DAKSHIN VIHAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>DWC - 315mm Dia</b>										
	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										
	<b>KD 0 to KD 01</b>										
	CH0.00	544.400	543.565	543.465			0.935	1.792			
	CH15.00	546.150	543.600	543.500			2.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	1.215	1.390	22.631	10.586	33.217	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	1.215	0.110	1.791	0.000	1.791	
	(b) For Lift 1.5 to 3.0m	1			13.400	0.815	0.292	3.189	0.000	3.189	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.900	0.815	0.100	1.133	1.432	2.565	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.216	1.902	4.118	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.250			14.250	0.000	14.250	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>24.422</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00			0.785	13.90	0.315	0.315	1.08		
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.13			
								2.22			
	<b>Net Qty = A - B</b>							<b>22.21</b>	<b>9.684</b>	<b>30.890</b>	
	<b>KD 01 to KD 02</b>										
	CH15.00	546.150	544.400	544.300			1.850	2.325			
	CH45.00	547.200	544.500	544.400			2.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.800	1.215	1.500	48.843	33.217	82.060	
	(b) For Lift 1.5 to 3.0m	1			26.800	0.815	0.825	18.020	0.000	18.020	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			27.800	0.815	0.100	2.266	2.565	4.830	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :-  
Page No. :- **157**

Name of work: Development of Underground Sewerage Collection system for Zone I to VI and Zone Seven. Also construction, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshiravadi (Kanchanwadi), Duncwadi, Siddharth Garden, Zalta, Padegaon, A.D.O. (Airport) Construction, Erection, Testing and Commissioning of Sewage pumping stations at Basewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and C.D.O. (Airport). Providing, lowering, laying, jointing and testing rising main G.R.P.M pipe line from eastwadi SPS to Nakshiravadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

2 of 15

Kanchanwadi Dakshin Vihar - Meas. Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.431		4.118	8.549
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			28.500			28.500		14.250	42.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							66.863			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	27.80	0.315	0.315	2.17			
	soling							0.00			
	PCC							0.00			
	Murram bedding							2.27			
								4.43			
	Net Qty = A - B							62.43		30.890	93.321
11/11/16	KD 02 to KD 03										
	CH45.00	547.200	544.500	544.400			2.800	2.900			
	CH65.00	547.500	544.600	544.500			3.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.215	1.500	33.534		82.060	115.594
	(b) For Lift 1.5 to 3.0m	1			18.400	0.815	1.400	20.994		18.020	39.014
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.900	0.815	0.100	1.540		4.830	6.371
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.013		8.549	11.562
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			19.250			19.250		42.750	62.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							54.528			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	18.90	0.315	0.315	1.47			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.54			
								3.01			
	Net Qty = A - B							51.52		93.321	144.837
11/11/16	CH65.00	547.500	544.600	544.500							
	CH83.00	547.700	544.700	544.600			3.000	3.050			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murram etc complete.						3.100				
	(a) For Lift 0 to 1.5m	1			16.400	1.215	1.500	29.889		115.594	145.483
	(b) For Lift 1.5 to 3.0m	1			16.400	0.815	1.500	20.049		39.014	59.063
	(c) For Lift 3.0 to 4.5m	1			16.400	0.815	0.050	0.668		0.000	0.668



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book



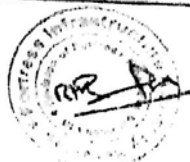
**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahni Ah. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), 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. :- 153  
Page No. :-

3 of 15

Kanchanwadi Dakshin Vihar - 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							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.900	0.815	0.100	1.377		6.371	7.748
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.694		11.562	14.255
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			17.250			17.250		62.000	79.250
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>50.606</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	16.90	0.315	0.315	1.32			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.38			
								2.69			
								<b>47.91</b>		<b>144.837</b>	<b>192.750</b>
	<b>Net Qty = A - B</b>										
	<b>KD 03 to KD 04</b>										
	CH83.00	547.700	544.700	544.600			3.100				
	CH108.00	548.000	544.700	544.600			3.400	3.250			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.400	1.615	1.150	43.460		145.483	188.943
	(b) For Lift 1.5 to 3.0m	1			23.400	1.215	1.500	42.647		59.063	101.710
	(c) For Lift 3.0 to 4.5m	1			23.400	0.815	0.250	4.768		0.668	5.436
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.400	1.615	0.250	9.448		0.000	9.448
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.400	1.615	0.100	3.779		1.791	5.570
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.900	0.815	0.100	1.948		7.748	9.696
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.809		14.255	18.065
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			24.250			24.250		79.250	103.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>104.101</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	23.90	0.315	0.315	1.86			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.95			
								<b>3.81</b>			



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :-

Page No. :- 159

**Name of work:** - Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahm Ab. 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 CIDCO (Airport).

4 of 15

Kanchanwadi Dakshin Vihar - 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							
		Net Qty = A - B						100.29		192.750	293.041
	CH108.00	548.000	544.700	544.600			3.400	3.500			
	CH128.00	548.200	544.700	544.600			3.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	1.150	34.173		188.943	223.116
	(b) For Lift 1.5 to 3.0m	1			18.400	1.215	1.500	33.534		101.710	135.244
	(c) For Lift 3.0 to 4.5m	1			18.400	0.815	0.500	7.498		5.436	12.934
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	0.250	7.429		9.448	16.877
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	0.100	2.972		5.570	8.542
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.900	0.815	0.100	1.540		9.696	11.236
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.013		18.065	21.077
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			19.250			19.250		103.500	122.750
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							85.606			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	18.90	0.315	0.315	1.47			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.54			
								3.01			
		Net Qty = A - B						82.59		293.041	375.635
	<b>KD 04 to KD 05</b>										
	CH128.00	548.200	544.700	544.600			3.600	3.800			
	CH148.00	548.600	544.700	544.600			4.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	1.150	34.173		223.116	257.289
	(b) For Lift 1.5 to 3.0m	1			18.400	1.215	1.500	33.534		135.244	168.778
	(c) For Lift 3.0 to 4.5m	1			18.400	0.815	0.800	11.997		12.934	24.931
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	0.250	7.429		16.877	24.306
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.615	0.100	2.972		8.542	11.513



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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 Sahni Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main CRP/DI pipe line from Golwadi SPS to Nakshrawadi (Kanchanwadi) S/P and Ward No.98 to

Book No. :- 167  
Page No. :-

Kanchanwadi Dakshin Vihar - Meas. Pipe

5 of 15

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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.900	0.815	0.100	1.540		11.236	12.777
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.013		21.077	24.090
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			19.250			19.250		122.750	142.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>90.105</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	18.90	0.315	0.315	1.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.54			
								3.01			
								<b>Net Qty = A - B</b>		<b>375.635</b>	<b>462.727</b>
	<b>CH148.00</b>	548.600	544.700	544.600				4.000			
	<b>CH166.00</b>	548.700	544.700	544.600				4.100			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	1.615	1.150	30.459		257.289	287.748
	(b) For Lift 1.5 to 3.0m	1			16.400	1.215	1.500	29.889		168.778	198.667
	(c) For Lift 3.0 to 4.5m	1			16.400	0.815	1.050	14.034		24.931	38.965
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	1.615	0.250	6.622		24.306	30.927
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	1.615	0.100	2.649		11.513	14.162
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.900	0.815	0.100	1.377		12.777	14.154
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.694		24.090	26.784
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			17.250			17.250		142.000	159.250
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>83.652</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	16.90	0.315	0.315	1.32			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.38			
								2.69			



/s/