



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- **002**
Page No. :-

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zohé 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.

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

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			8.80	0.790	0.150	1.043		8.191	9.234
	Item No.17 (Extra) :- Lowering & Laying SW pipe of 250mm Dia	1			10.50			10.500		11.500	22.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							21.221			
	Deduction										
	pipe area	1		0.785	8.80	0.290	0.290	0.58			
	soling							0.00			
	PCC							1.04			
	Murrum bedding							1.62			
	Total = B							19.60		176.713	196.310
					Net Qty = A - B						



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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. :- **003**
Page No. :-

8th RA BILL MEASUREMENTS

Date	Particulars of work	M Sewer						Content of area	Last measurement		Total Upto Date
		DETAILS							Page	Quantity	
		No	L	B	D	GL	IL				
	M-Line-400mm Dia. (Jadhavwadi to Mayur Park)										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	MH 172										
	CH10614.50	602.297	598.152	597.952			4.35	3.564			
	CH10653.20	600.915	598.332	598.132			2.78				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			35.500	2.000	1.500	106.500	121.092	227.592	
	(b) For Lift 1.5m to 3.0m	1			35.500	1.600	1.500	85.200	80.576	165.776	
	(c) For Lift 3.0m to 4.5m	1			35.500	1.200	0.564	24.026	12.812	36.839	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			35.500	1.200	0.200	8.520	9.234	17.754	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.500			37.500	0.000	37.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							215.726			
	Deduction										
	pipe area	1		0.785	37.500	0.550	0.550	8.90			
	soling							0.00			
	PCC							0.00			
	Murum bedding							8.52			
	Total = B							17.42			
								Net Qty = A - B	198.30	196.310	394.611
	MH 173										
	CH10653.20	600.915	598.800	598.600			2.32	2.668			
	CH10699.40	601.997	599.177	598.977			3.02				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			43.000	1.600	1.500	103.200	227.592	330.792	
	(b) For Lift 1.5m to 3.0m	1			43.000	1.200	1.168	60.269	165.776	226.044	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			43.000	1.200	0.200	10.320	17.754	28.074	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			45.000			45.000	37.500	82.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							163.469			
	Deduction										
	pipe area	1		0.785	45.000	0.550	0.550	10.69			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.32			
	Total = B							21.01			
								Net Qty = A - B	142.46	394.611	537.074



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 004
Page No. :-

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date
		No			L	B		D	Page	
		GL	IL	EXL						
	MH 174									
	CH10699.40	601.997	599.177	598.977			3.02			
	CH10735.60	601.817	599.267	599.067			2.75	2.885		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			33.000	1.600	1.500	79.200	330.792	409.992
	(b) For Lift 1.5m to 3.0m	1			33.000	1.200	1.385	54.846	226.044	280.890
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			33.000	1.200	0.200	7.920	28.074	35.994
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.000			35.000	82.500	117.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A							134.046		
	Deduction									
	pipe area	1		0.785	35.000	0.550	0.550	8.31		
	soling							0.00		
	PCC							0.00		
	Murum bedding							7.92		
	Total = B							16.23		
	Net Qty = A - B							117.81	537.074	654.889
	MH 175									
	CH10735.60	601.817	599.267	599.067			2.75			
	CH10761.80	601.807	599.327	599.127			2.68	2.715		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			23.000	1.600	1.500	55.200	409.992	465.192
	(b) For Lift 1.5m to 3.0m	1			23.000	1.200	1.215	33.534	280.890	314.424
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.000	1.200	0.200	5.520	35.994	41.514
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000	117.500	142.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A							88.734		
	Deduction									
	pipe area	1		0.785	25.000	0.550	0.550	5.94		
	soling							0.00		
	PCC							0.00		
	Murum bedding							5.52		
	Total = B							11.46		
	Net Qty = A - B							77.28	654.889	732.167
	MH 176									
	CH10761.80	601.807	599.327	599.127			2.68			
	CH10805.50	601.787	599.357	599.157			2.63	2.655		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			40.500	1.600	1.500	97.200	465.192	562.392
	(b) For Lift 1.5m to 3.0m	1			40.500	1.200	1.155	56.133	314.424	370.557



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Book No. :- 005
Page No. :-

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.500	1.200	0.200	9.720		41.514	51.234
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.500			42.500		142.500	185.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							153.333			
	Deduction										
	pipe area	1		0.785	42.500	0.550	0.550	10.09			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.72			
	Total = B							19.81			
								Net Qty = A - B		732.167	865.687
	MH 177										
	CH10805.50	601.787	599.357	599.157				2.63			
	CH10841.70	602.027	599.367	599.167				2.86		2.745	
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			33.000	1.600	1.500	79.200		562.392	641.592
	(b) For Lift 1.5m to 3.0m	1			33.000	1.200	1.245	49.302		370.557	419.859
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			33.000	1.200	0.200	7.920		51.234	59.154
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.000			35.000		185.000	220.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							128.502			
	Deduction										
	pipe area	1		0.785	35.000	0.550	0.550	8.31			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.92			
	Total = B							16.23			
								Net Qty = A - B		865.687	977.958
	MH 178										
	CH10841.70	602.027	599.367	599.167				2.86		2.865	
	CH10885.40	602.057	599.387	599.187				2.87			
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			40.500	1.600	1.500	97.200		641.592	738.792
	(b) For Lift 1.5m to 3.0m	1			40.500	1.200	1.365	66.339		419.859	486.198
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.500	1.200	0.200	9.720		59.154	68.874
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.500			42.500		220.000	262.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							163.539			
	Deduction										
	pipe area	1		0.785	42.500	0.550	0.550	10.09			



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Book No. :- **006**
Page No. :-

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.72			
	Total = B							19.81			
		Net Qty = A - B						143.73	977.958	1121.685	
	MH 179										
	CH10885.40	602.057	599.387	599.187			2.87	2.790			
	CH10911.60	601.950	599.440	599.240			2.71				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.000	1.600	1.250	46.000	738.792	784.792	
	(b) For Lift 1.5m to 3.0m	1			23.000	1.200	1.290	35.604	486.198	521.802	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.000	2.000	0.200	9.200	0.000	9.200	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.000	2.000	0.050	2.300	0.000	2.300	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.000	1.200	0.200	5.520	68.874	74.394	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000	262.500	287.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							93.104			
	Deduction										
	pipe area	1		0.785	25.000	0.550	0.550	5.94			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.52			
	Total = B							11.46			
		Net Qty = A - B						81.65	1121.685	1203.332	
	MH 180										
	CH10911.60	601.950	599.440	599.240			2.71	2.685			
	CH10925.30	602.000	599.540	599.340			2.66				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	1.600	1.500	25.200	784.792	809.992	
	(b) For Lift 1.5m to 3.0m	1			10.500	1.200	1.185	14.931	521.802	536.733	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.500	1.200	0.200	2.520	74.394	76.914	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500	287.500	300.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							40.131			
	Deduction										
	pipe area	1		0.785	12.500	0.550	0.550	2.97			



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Book No. :- **007**
Page No. :-

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

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	soling									0.00	
	PCC									0.00	
	Murum bedding									2.52	
	Total = B									5.49	
		Net Qty = A - B									34.64
	MH 181										
	CH10925.30	602.000	599.540	599.340			2.66			2.810	
	CH10937.75	602.340	599.580	599.380			2.96				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.250	1.600	1.500	22.200		809.992	832.192
	(b) For Lift 1.5m to 3.0m	1			9.250	1.200	1.310	14.541		536.733	551.274
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.250	1.200	0.200	2.220		76.914	79.134
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			11.250			11.250		300.000	311.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A									36.741	
	Deduction										
	pipe area	1		0.785	11.250	0.550	0.550	2.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.22			
	Total = B							4.89			
		Net Qty = A - B									31.85
	MH 182										
	CH10937.75	602.340	599.580	599.380			2.96			3.210	
	CH10972.70	602.950	599.690	599.490			3.46				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.750	2.000	1.500	95.250		832.192	927.442
	(b) For Lift 1.5m to 3.0m	1			31.750	1.600	1.500	76.200		551.274	627.474
	(c) For Lift 3.0m to 4.5m	1			31.750	1.200	0.210	8.001		36.839	44.840
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.750	1.200	0.200	7.620		79.134	86.754
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			33.750			33.750		311.250	345.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A									179.451	
	Deduction										
	pipe area	1		0.785	33.750	0.550	0.550	8.01			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.62			
	Total = B							15.63			
		Net Qty = A - B									163.82



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Book No. :- **008**
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

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	MH 183										
	CH10972.70	602.950	599.690	599.490			3.46	3.460			
	CH11001.40	603.045	599.785	599.585			3.46				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.500	2.000	1.500	76.500	927.442	1003.942	
	(b) For Lift 1.5m to 3.0m	1			25.500	1.600	1.500	61.200	627.474	688.674	
	(c) For Lift 3.0m to 4.5m	1			25.500	1.200	0.460	14.076	44.840	58.916	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.500	1.200	0.200	6.120	86.754	92.874	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.500			27.500	345.000	372.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							151.776			
	Deduction										
	pipe area	1		0.785	27.500	0.550	0.550	6.53			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.12			
	Total = B							12.65			
	Net Qty = A - B							139.13	1433.641	1572.767	
	MH 184										
	CH11001.40	603.045	599.785	599.585			3.46	3.560			
	CH11035.10	603.305	599.845	599.645			3.66				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	2.000	1.500	91.500	1003.942	1095.442	
	(b) For Lift 1.5m to 3.0m	1			30.500	1.600	1.500	73.200	688.674	761.874	
	(c) For Lift 3.0m to 4.5m	1			30.500	1.200	0.560	20.496	58.916	79.412	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.500	1.200	0.200	7.320	92.874	100.194	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.500			32.500	372.500	405.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							185.196			
	Deduction										
	pipe area	1		0.785	32.500	0.550	0.550	7.72			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.32			
	Total = B							15.04			
	Net Qty = A - B							170.16	1572.767	1742.926	



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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. :- 009

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date
		No			L	B		D	Page	
		GL	IL	EX.L						
	MH 185									
	CH11035.10	603.305	600.375	600.175			3.13			
	CH11066.30	602.925	600.465	600.265			2.66	2.895		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			28.000	1.600	1.500	67.200	1095.442	1162.642
	(b) For Lift 1.5m to 3.0m	1			28.000	1.200	1.395	46.872	761.874	808.746
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			28.000	1.200	0.200	6.720	100.194	106.914
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000	405.000	435.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A							114.072		
	Deduction									
	pipe area	1		0.785	30.000	0.550	0.550	7.12		
	soling							0.00		
	PCC							0.00		
	Murum bedding							6.72		
	Total = B							13.84		
	Net Qty = A - B							100.23	1742.926	1843.154
	MH 186									
	CH11066.30	602.925	600.465	600.265			2.66			
	CH11097.50	603.015	600.555	600.355			2.66	2.660		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			28.000	1.600	1.500	67.200	1162.642	1229.842
	(b) For Lift 1.5m to 3.0m	1			28.000	1.200	1.160	38.976	808.746	847.722
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			28.000	1.200	0.200	6.720	106.914	113.634
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000	435.000	465.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A							106.176		
	Deduction									
	pipe area	1		0.785	30.000	0.550	0.550	7.12		
	soling							0.00		
	PCC							0.00		
	Murum bedding							6.72		
	Total = B							13.84		
	Net Qty = A - B							92.33	1843.154	1935.486
	MH 187									
	CH11097.50	603.015	600.555	600.355			2.66			
	CH11133.70	603.425	600.665	600.465			2.96	2.810		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
	(a) For Lift 0 to 1.5m	1			33.000	1.600	1.500	79.200	1229.842	1309.042
	(b) For Lift 1.5m to 3.0m	1			33.000	1.200	1.310	51.876	847.722	899.598



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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 CIDCO (Airport).

Book No. :- 012
Page No. :-

5th RA BILL MEASUREMENTS

Date	Particulars of work	M Sewer						Content of area	Last measurement		Total Upto Date
		DETAILS							Page	Quantity	
		No			L	B	D				
GL	IL	EX.L									
	M-Line-500mm Dia. (Jadhavwadi to Mayur Park)										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m-0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m-0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m-0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	MH 153/1 to MH 153/2	MH 153/1 is in between MH 153 & MH 154									
	CH9880.60	599.330	594.680	594.480			4.85	4.785			
	CH9904.30	599.240	594.720	594.520			4.72				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			20.500	2.500	1.500	76.875	1591.042	1667.917	
	(b) For Lift 1.5m to 3.0m	1			20.500	2.100	1.500	64.575	1125.198	1189.773	
	(c) For Lift 3.0m to 4.5m	1			20.500	1.700	1.500	52.275	101.900	154.175	
	(d) For Lift 4.5m to 6.0m	1			20.500	1.300	0.285	7.595	0.000	7.595	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			20.500	1.300	0.200	5.330	144.114	149.444	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.500			22.500	0.000	22.500	
	Item No 30 :- Refilling the excavated trenches ...							201.320			
	Total Excavation = A										
	Deduction										
	pipe area	1		0.785	22.500	0.650	0.650	7.46			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.33			
	Total = B							12.79			
	Net Qty = A - B							188.53	2534.112	2722.640	
	MH 153/2 to MH 156	MH 156 is taken in 5th RA									
	CH9904.30	599.240	594.720	594.520			4.72	4.745			
	CH9948.00	599.334	594.764	594.564			4.77				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			40.500	2.500	1.500	151.875	1667.917	1819.792	
	(b) For Lift 1.5m to 3.0m	1			40.500	2.100	1.500	127.575	1189.773	1317.348	
	(c) For Lift 3.0m to 4.5m	1			40.500	1.700	1.500	103.275	154.175	257.450	
	(d) For Lift 4.5m to 6.0m	1			40.500	1.300	0.245	12.899	7.595	20.495	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.500	1.300	0.200	10.530	149.444	159.974	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			42.500			42.500	22.500	65.000	
	Item No 30 :- Refilling the excavated trenches ...							395.624			
	Total Excavation = A										
	Deduction										
	pipe area	1		0.785	42.500	0.650	0.650	14.10			
	soling							0.00			



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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

Book No. :-
Page No. :- **013**

PCC								0.00			
Murum bedding								10.53			
Total = B								24.63			
	Net Qty = A - B								371.00	2722.640	3093.639
MH 157/1 to MH 157/2	MH 157/1 is in between MH 157 & MH 158 and 54 mt from MH 157										
CH0.00	600.025	595.475	595.275					4.75			
CH73.70	600.205	595.655	595.455					4.75			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											
(a) For Lift 0 to 1.5m	1			70.500	2.500	1.300		229.125	1819.792	2048.917	
(b) For Lift 1.5m to 3.0m	1			70.500	2.100	1.500		222.075	1317.348	1539.423	
(c) For Lift 3.0m to 4.5m	1			70.500	1.700	1.500		179.775	257.450	437.225	
(d) For Lift 4.5m to 6.0m	1			70.500	1.300	0.250		22.913	20.495	43.407	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			70.500	2.500	0.200		35.250	9.200	44.450	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			70.500	1.300	0.200		18.330	159.974	178.304	
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			72.500				72.500	65.000	137.500	
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation = A								689.138			
Deduction											
pipe area	1		0.785	72.500	0.650	0.650		24.05			
soling								0.00			
PCC								0.00			
Murum bedding								18.33			
Total = B								42.38			
	Net Qty = A - B								646.76	3093.639	3740.401
MH 157/2 to MH 157/3											
CH73.70	600.205	595.655	595.455					4.75			
CH107.40	600.185	595.735	595.535					4.65			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											
(a) For Lift 0 to 1.5m	1			30.500	2.500	1.300		99.125	2048.917	2148.042	
(b) For Lift 1.5m to 3.0m	1			30.500	2.100	1.500		96.075	1539.423	1635.498	
(c) For Lift 3.0m to 4.5m	1			30.500	1.700	1.500		77.775	437.225	515.000	
(d) For Lift 4.5m to 6.0m	1			30.500	1.300	0.200		7.930	43.407	51.337	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
(a) For Lift 0 to 1.5m	1			30.500	2.500	0.200		15.250	44.450	59.700	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.500	1.300	0.200		7.930	178.304	186.234	
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			32.500				32.500	137.500	170.000	
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation = A								296.155			
Deduction											
pipe area	1		0.785	32.500	0.650	0.650		10.78			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

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Book No. :- **014**
Page No. :-

soling								0.00		
PCC								0.00		
Murram bedding								7.93		
Total = B								18.71		
Net Qty = A - B								277.45	3740.401	4017.847
MH 157/3 to MH 160										
CH107.40	600.185	595.735	595.535				4.65	4.600		
CH133.60	600.150	595.800	595.600				4.55			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			23.000	2.500	1.500	86.250		2148.042	2234.292
(b) For Lift 1.5m to 3.0m	1			23.000	2.100	1.500	72.450		1635.498	1707.948
(c) For Lift 3.0m to 4.5m	1			23.000	1.700	1.500	58.650		515.000	573.650
(d) For Lift 4.5m to 6.0m	1			23.000	1.300	0.100	2.990		51.337	54.327
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	1			23.000	1.300	0.200	5.980		186.234	192.214
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia										
	1			25.000			25.000		170.000	195.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation = A								220.340		
Deduction										
pipe area	1		0.785	25.000	0.650	0.650	8.29			
soling							0.00			
PCC							0.00			
Murram bedding							5.98			
Total = B							14.27			
Net Qty = A - B								206.07	4017.847	4223.915
MH 160 to MH 161										
CH133.60	600.150	595.800	595.600				4.55	4.500		
CH149.80	600.090	595.840	595.640				4.45			
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			13.000	2.100	1.500	40.950		2234.292	2275.242
(b) For Lift 1.5m to 3.0m	1			13.000	1.700	1.500	33.150		1707.948	1741.098
(c) For Lift 3.0m to 4.5m	1			13.000	1.300	1.500	25.350		573.650	599.000
(d) For Lift 4.5m to 6.0m	1			13.000	1.300	0.000	0.000		54.327	54.327
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	1			13.000	1.300	0.200	3.380		192.214	195.594
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia										
	1			15.000			15.000		195.000	210.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation = A								99.450		
Deduction										
pipe area	1		0.785	15.000	0.650	0.650	4.97			
soling							0.00			
PCC							0.00			
Murram bedding							3.38			
Total = B							8.35			
Net Qty = A - B								91.10	4223.915	4315.010



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :- **016**
Page No. :-

MH 163 to MH 164									
CH242.20	600.407	596.057	595.857				4.55		
CH300.90	600.547	596.197	595.997				4.55	4.550	
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
(a) For Lift 0 to 1.5m	1			55.500	2.100	1.500	174.825		2546.142 2720.96
(b) For Lift 1.5m to 3.0m	1			55.500	1.700	1.500	141.525		1960.398 2101.92
(c) For Lift 3.0m to 4.5m	1			55.500	1.300	1.500	108.225		766.700 874.925
(d) For Lift 4.5m to 6.0m	1			55.500	1.300	0.050	3.608		57.935 61.542
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	1			55.500	1.300	0.200	14.430		217.954 232.384
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia									
	1			57.500			57.500		300.000 357.500
Item No 30 :- Refilling the excavated trenches ...									
Total Excavation = A							428.183		
Deduction									
pipe area	1		0.785	57.500	0.650	0.650	19.07		
soling							0.00		
PCC							0.00		
Murum bedding							14.43		
Total = B							33.50		
Net Qty = A - B							394.68		4924.308 5318.990
MH 164 to MH 167/165									
CH300.90	600.547	596.197	595.997				4.55		
CH347.10/10482.00	600.517	596.277	596.077				4.44	4.495	
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
(a) For Lift 0 to 1.5m	1			43.000	2.100	1.500	135.450		2720.967 2856.417
(b) For Lift 1.5m to 3.0m	1			43.000	1.700	1.500	109.650		2101.923 2211.573
(c) For Lift 3.0m to 4.5m	1			43.000	1.300	1.495	83.571		874.925 958.495
(d) For Lift 4.5m to 6.0m	1			43.000	1.300	0.000	0.000		61.542 61,542
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
(a) For Lift 0 to 1.5m	1			43.000	2.100	0.000	0.000		59.700 59,700
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
(a) For Lift 0 to 1.5m	1			43.000	2.100	0.000	0.000		2.300 2,300
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	1			43.000	1.300	0.200	11.180		232.384 243,564
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia									
	1			45.000			45.000		357.500 402,500
Item No 30 :- Refilling the excavated trenches ...									
Total Excavation = A							328.671		
Deduction									
pipe area	1		0.785	45.000	0.650	0.650	14.92		
soling							0.00		
PCC							0.00		
Murum bedding							11.18		
Total = B							26.10		
Net Qty = A - B							302.57		5318.990 5621.556



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

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Book No. :- **018**

Page No. :-

7th RA BILL MEASUREMENTS

M Sewer

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 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m Breadth for Manhole=3.2*3.2=10.24m										
	M-Line-500mm Dia. (Jadhavwadi to Mayur Park)										
	MH 153/1										
	CH 9880.60	599.330	594.680	594.430			4.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	0.000	12.058	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	0.000	12.058	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	0.000	12.058	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.400	3.215	0.000	3.215	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							39.388			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.325	9.488			
		1		0.785	1.540	1.540	2.325	4.328			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								15.123			
	Net Qty = A - B							24.266	0.000	24.266	
	MH 153/2										
	CH 9904.30	599.240	594.720	594.470			4.770				
	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	10.240	1.500	12.058	12.058	24.115	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	12.058	24.115	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	12.058	24.115	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.270	2.170	3.215	5.386	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							38.343			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.260	9.222			
		1		0.785	1.540	1.540	2.260	4.207			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.736			
	Net Qty = A - B							23.607	24.266	47.873	
	MH 157/1										
	CH 0.00	600.025	595.475	595.225			4.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to	1			0.785	10.240	1.500	12.058	24.115	36.173	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	24.115	36.173	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	24.115	36.173	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.300	2.412	5.386	7.797	



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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 Nakshtravadi (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. :- **019**

Page No. :-

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. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						38.504				
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.275	9.284			
		1		0.785	1.540	1.540	2.275	4.235			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
							14.825				
	Net Qty = A - B						23.759		47.873	71.631	
	MH 157/2										
	CH 73.70	600.205	595.655	595.405			4.800				
	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	10.240	1.500	12.058	36.173	48.230	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	36.173	48.230	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	36.173	48.230	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.300	2.412	7.797	10.209	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						38.584				
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.275	9.284			
		1		0.785	1.540	1.540	2.275	4.235			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
							14.825				
	Net Qty = A - B						23.759		71.631	95.390	
	MH 157/3										
	CH 107.40	600.185	595.735	595.485			4.700				
	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	10.240	1.500	12.058	48.230	60.288	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	48.230	60.288	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	48.230	60.288	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.200	1.608	10.209	11.816	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						37.780				
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.225	9.080			
		1		0.785	1.540	1.540	2.225	4.142			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
							14.528				
	Net Qty = A - B						23.252		95.390	118.643	
	MH 160										
	CH 133.60	600.150	595.800	595.550			4.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	60.288	72.346	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	60.288	72.346	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	60.288	72.346	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.100	0.804	11.816	12.620	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :-

020

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.

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Uj Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						36.977				
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.175	8.876			
		1		0.785	1.540	1.540	2.175	4.049			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.231			
	Net Qty = A - B							22.745	118.643	141.388	
	MH 161										
	CH 149.80	600.090	595.840	595.590			4.500				
	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	10.240	1.500	12.058	72.346	84.403	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	72.346	84.403	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	72.346	84.403	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000	12.620	12.620	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							36.173			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.125	8.672			
		1		0.785	1.540	1.540	2.125	3.956			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								13.934			
	Net Qty = A - B							22.239	141.388	163.627	
	MH 162										
	CH 183.50	600.267	595.917	595.667			4.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	84.403	96.461	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	84.403	96.461	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	84.403	96.461	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.100	0.804	12.620	13.424	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							36.977			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.175	8.876			
		1		0.785	1.540	1.540	2.175	4.049			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.231			
	Net Qty = A - B							22.745	163.627	186.372	
	MH 163										
	CH 242.20	600.407	596.057	595.807			4.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	96.461	108.518	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	96.461	108.518	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	96.461	108.518	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.100	0.804	13.424	14.228	



Signature



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- **021**

Page No. :-

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

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=						36.977				
	Deduction										
	Brick work			0.785	2.280	2.280	2.175	8.876			
		1		0.785	1.540	1.540	2.175	4.049			
	PCC			0.785	2.580	2.580	0.250	1.306			
	Soling			0.785	2.580	2.580	0.000	0.000			
								14.231			
								22.745	186.372	209.118	
	Net Qty = A - B										
	MH 164										
	CH 300.90	600.547	596.197	595.947			4.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	108.518	120.576	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	108.518	120.576	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	108.518	120.576	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.100	0.804	14.228	15.032	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							36.977			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.175	8.876			
		1		0.785	1.540	1.540	2.175	4.049			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.231			
								22.745	209.118	231.863	
	Net Qty = A - B										
	MH 172										
	CH 10614.50	602.297	598.152	597.902			4.395				
	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	10.240	1.500	12.058	120.576	132.634	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	120.576	132.634	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.395	11.214	120.576	131.790	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							35.329			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.072	8.457			
		1		0.785	1.540	1.540	2.072	3.858			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								13.622			
								21.707	231.863	253.570	
	Net Qty = A - B										
	MH 173										
	CH 10653.20	600.915	598.332	598.082			2.833				
	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	10.240	1.500	12.058	132.634	144.691	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.333	10.715	132.634	143.349	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	131.790	131.790	



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