



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. :-

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Ward No 98 400mm Dia-Near STP

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12th RA BILL MEASUREMENTS

Ward No 98

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	400mm Dia - Near STP at Paithan Road Crossing										
	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										
	From Bottom Lift 4.50m-6.00m- 0.4+0.15+0.15+0.5+0.4+0.4+0.4=2.4										
	WN 41										
10/11/2016	CH1985.80	541.916	541.316	540.966			0.950	0.950			
	CH2008.90	542.050	541.450	541.100			0.950				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			21.650	1.200	0.200	5.196	0.000	5.196	
	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			21.650	1.200	0.750	19.485	0.000	19.485	
	Extra Item No. 5 a) :- Providing Rubble soling in 15 to 20cm thk layer	1			22.150	0.950	0.200	4.208	0.000	4.208	
	Item No:6 :- Providing and laying in situ Cement Concrete of trap/granite /quartzite/gneiss metal for RCC work in foundation like raft,grillage,strip	1			22.150	0.750	0.750	12.459			
	Deduction for Pipe	-1		0.785	22.150	0.550	0.550	-5.260			
	M30 Concrete In casing Quantity							7.200	0.000	7.200	
	Item No. : 11 Transportation of earth Transportation charges including							11.408	0.000	11.408	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500	0.000	22.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							24.681			
	Deduction										
	In casing Volume							7.200			
	soling							4.208			
	Total = B							11.408			
								Net Qty = A - B			
								13.273	0.000	13.273	
10/11/2016	CH2008.90	542.050	541.450	541.100			0.950	0.949			
	CH2032.00	542.275	541.676	541.326			0.949				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			21.650	1.200	0.200	5.196	5.196	10.392	
	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			21.650	1.200	0.750	19.485	19.485	38.970	
	Extra Item No. 5 a) :- Providing Rubble soling in 15 to 20cm thk layer	1			22.150	0.950	0.200	4.208	4.208	8.417	



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

Ward No 98 400mm Dia-Near STP

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No:6 :- Providing and laying in situ Cement Concrete of trap/granite /quartzite/gneiss metal for RCC work in foundation like raft,grillage,strip	1			22.150	0.750	0.750	12.459				
	Deduction for Pipe	-1		0.785	22.150	0.550	0.550	-5.260		0.000		
	M30 Concrete Incasing Quantity							7.200		7.200	14.399	
	Item No. : 11 Transportation of earth Transportation charges including							11.408		11.408	22.816	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		22.500	45.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A							24.681				
	Deduction							7.200				
	Incasing Volume							4.208				
	soling							11.408				
	Total = B											
					Net Qty = A - B					13.273	26.546	
	WN 42											
16/11/2016	CH2032.00	542.275	541.696	541.246			1.029	1.039				
	CH2057.60	542.320	541.720	541.270			1.050					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			24.150	1.200	0.400	11.592		10.392	21.984	
	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			24.150	1.200	0.639	18.518		38.970	57.488	
	Extra Item No. 5 (a) :- Providing Rubble soling in 15 to 20cm thk layer	1			24.650	0.950	0.200	4.684		8.417	13.101	
	Item No:6 :- Providing and laying in situ Cement Concrete of trap/granite /quartzite/gneiss metal for RCC work in foundation like raft,grillage,strip	1			24.650	0.750	0.750	13.866				
	Deduction for Pipe	-1		0.785	24.650	0.550	0.550	-5.853		0.000		
	M30 Concrete Incasing Quantity							8.012		14.399	22.411	
	Item No. : 11 Transportation of earth Transportation charges Including							12.696		22.816	35.512	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		45.000	70.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A							30.110				
	Deduction							8.012				
	Incasing Volume							4.684				
	soling							12.696				
	Total = B											
					Net Qty = A - B					17.415	26.546	43.960
18/11/2016	CH2057.60	542.320	541.720	541.270			1.050	1.050				
	CH2082.60	542.370	541.770	541.320			1.050					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			25.000	1.200	0.350	10.500		21.984	32.484	



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

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

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

Date of	Details					Last Measurement		Total up to

Ward No 98 400mm Dia-Near STP

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Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500		12.500	152.500	165.000		
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A					13.281					
	Deduction										
	pipe area	1		0.785	12.150	0.550	0.550	2.885			
	Murum bedding							2.916			
	Total = B					5.801					
					Net Qty = A - B		7.480	103.638	111.118		



AURANGABAD MUNICIPAL CORPORATION.

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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 400mm Dia-Walmi

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12th RA BILL MEASUREMENTS

Ward No 98

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	400mm Dia - Near Walmi										
	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										
	From Bottom Lift 4.50m-6.00m- 0.4*0.15+0.15*0.5+0.4+0.4+0.4=2.4m										
	WNC 26										
	CH1252.50	539.280	536.030	535.830			3.450				
	CH1278.10	540.835	536.092	535.892			4.943	4.197			
	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			24.650	2.000	1.500	73.950		134.447	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.650	1.600	1.500	59.160		0.000	
	(c) For Lift 3.0m to 4.5m	1			24.650	1.200	0.897	26.533		0.000	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			24.650	1.200	0.300	8.874		0.000	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.650	1.200	0.200	5.916		2.916	
	Item No. : 11 Transportation of earth Transportation charges including							0.000		83.443	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		165.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							168.517			
	Deduction										
	pipe area	1		0.785	24.650	0.550	0.550	5.853			
	Murum bedding							5.916			
	Total = B							11.769			
	Net Qty = A - B							156.748	111.118	267.866	
	CH1278.10	540.835	536.092	535.892			4.943				
	CH1306.20	540.840	536.161	535.961			4.879	4.911			
	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			26.650	2.400	1.400	89.544		208.397	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.650	2.400	0.100	6.396		0.000	
	(b) For Lift 1.5m to 3.0m	1			26.650	2.000	1.500	79.950		59.160	
	(c) For Lift 3.0m to 4.5m	1			26.650	1.600	1.500	63.960		26.533	
	(d) For Lift 4.5m to 6.0m	1			26.650	1.200	0.150	4.797		0.000	



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

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

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Ward No 98 400mm Dia-Walmi

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(d) For Lift 4.5m to 6.0m	1			26.650	1.200	0.261	8.347		0.000	8.347
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			27.150	1.200	0.200	6.516		8.832	15.348
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.500			27.500		190.000	217.500
	Item No 30 :- Refilling the excavated trenches ...							252.994			
	Total Excavation= A										
	Deduction										
	pipe area	1		0.785	27.150	0.550	0.550	6.447			
	Murrum bedding							6.516			
	Total = B							12.963			
								240.031		267.866	507.897
	WNC 27										
	CH1306.20	540.840	536.800	536.600				4.240			
	CH1347.40	541.735	536.900	536.700				5.035			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			38.300	2.400	0.000	0.000		60.114	60.114
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.300	2.400	1.500	137.880		297.941	435.821
	(b) For Lift 1.5m to 3.0m	1			38.300	2.000	0.637	48.794		0.000	48.794
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.300	2.400	0.000	0.000		6.396	6.396
	(b) For Lift 1.5m to 3.0m	1			38.300	2.000	0.863	66.106		139.110	205.216
	(c) For Lift 3.0m to 4.5m	1			38.300	1.600	1.500	91.920		90.493	182.413
	(d) For Lift 4.5m to 6.0m	1			38.300	1.200	0.138	6.342		4.797	11.139
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			38.300	1.600	0.000	0.000		8.874	8.874
	(d) For Lift 4.5m to 6.0m	1			38.300	1.200	0.000	0.000		8.347	8.347
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			39.300	1.200	0.200	9.432		15.348	24.780
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.000			40.000		217.500	257.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							351.042			
	Deduction										
	pipe area	1		0.785	39.300	0.550	0.550	9.332			
	Murrum bedding							9.432			
	Total = B							18.764			
								332.278		507.897	840.175



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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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 Vencture)

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

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Ward No 98 400mm Dia-Walmi

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	WNC 28										
	CH1347.40	541.735	537.400	537.200			4.535				
	CH1413.00	541.950	537.580	537.380			4.570				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			64.150	2.000	0.000	0.000	60.114	60.114	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			64.150	2.000	1.500	192.450	435.821	628.271	
	(b) For Lift 1.5m to 3.0m	1			64.150	1.600	0.800	82.112	48.794	130.906	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			64.150	2.000	0.000	0.000	6.396	6.396	
	(b) For Lift 1.5m to 3.0m	1			64.150	1.600	0.700	71.848	205.216	277.064	
	(c) For Lift 3.0m to 4.5m	1			64.150	1.200	1.500	115.470	182.413	297.883	
	(d) For Lift 4.5m to 6.0m	1			64.150	1.200	0.053	4.080	11.139	15.219	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			64.150	1.200	0.000	0.000	8.874	8.874	
	(d) For Lift 4.5m to 6.0m	1			64.150	1.200	0.000	0.000	8.347	8.347	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete. (bedding)	1			64.650	1.200	0.200	15.516	24.780	40.296	
	Item No. : 11 Transportation of earth Transportation charges including							30.868	83.443	114.311	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			65.000			65.000	257.500	322.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							465.960			
	Deduction										
	pipe area	1		0.785	64.650	0.550	0.550	15.352			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							15.516			
	Total = B							30.868			
					Net Qty = A - B			435.092	840.175	1275.267	





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

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

Ward No 98 400mm Dia-Hindustan Awas II

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12th R A BILL MEASUREMENTS

Ward No 98

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	400mm Dia - Hindustan Awas II										
	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										
	From Bottom Lift 4.50m-6.00m- 0.4+0.15+0.15+0.5+0.4+0.4+0.4=2.4m										
	WNH 41										
	CH1785.00	543.650	540.820	540.620			3.030				
	CH1871.20	543.850	541.220	541.020			2.830		2.930		
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			83.800	1.600	0.000	0.000	60.114	60.114	
	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			83.800	1.600	0.210	28.157	628.271	656.428	
	(b) For Lift 1.5m to 3.0m	1			83.800	1.200	0.000	0.000	130.906	130.906	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			83.800	1.600	1.290	172.963	6.396	179.359	
	(b) For Lift 1.5m to 3.0m	1			83.800	1.200	1.430	143.801	277.064	420.865	
	(c) For Lift 3.0m to 4.5m	1			83.800	1.200	0.000	0.000	297.883	297.883	
	(d) For Lift 4.5m to 6.0m	1			83.800	1.200	0.000	0.000	15.219	15.219	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			83.800	1.200	0.000	0.000	8.874	8.874	
	(d) For Lift 4.5m to 6.0m	1			83.800	1.200	0.000	0.000	8.347	8.347	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			84.300	1.200	0.200	20.232	40.296	60.528	
	Item No. 11 Transportation of earth Transportation charges including							0.000	114.311	114.311	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			85.000			85.000	322.500	407.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							344.921			
	Deduction										
	pipe area	1		0.785	84.300	0.550	0.550	20.018			
	soling							0.000			
	PCC							0.000			
	Murum bedding							20.232			
	Total = B							40.250			
	Net Qty = A - B							304.671	1275.267	1579.938	





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. :- 131
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

Ward No 98 400mm Dia-Hindustan Awaz II

Page 3 of 5

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	WNH 43										
24/08/2016	CH1904.90	546.065	541.761	541.561			4.504	4.619			
	CH1963.60	546.441	541.908	541.708			4.733				
	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			55.800	2.400	1.000	133.920	679.860	813.780	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			55.800	2.400	0.500	66.960	261.317	328.277	
	(b) For Lift 1.5m to 3.0m	1			55.800	2.000	1.500	167.400	507.775	675.175	
	(c) For Lift 3.0m to 4.5m	1			55.800	1.600	1.018	90.887	334.032	424.919	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			55.800	1.600	0.482	43.033	22.730	65.763	
	(d) For Lift 4.5m to 6.0m	1			55.800	1.200	0.119	7.968	8.347	16.315	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			56.800	1.200	0.200	13.632	68.160	81.792	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			57.500			57.500	440.000	497.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							510.168			
	Deduction										
	pipe area	1		0.785	56.800	0.550	0.550	13.488			
	Murum bedding							13.632			
	Total = B							27.120			
								Net Qty = A - B	483.048	1807.059	
	WNH 44										
	CH1963.60	546.441	542.718	542.518			3.923	4.134			
	CH2022.30	547.006	542.862	542.662			4.344				
	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			55.800	2.000	1.100	122.760	813.780	936.540	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			55.800	2.000	0.400	44.640	328.277	372.917	
	(b) For Lift 1.5m to 3.0m	1			55.800	1.600	1.500	131.920	675.175	809.095	
	(c) For Lift 3.0m to 4.5m	1			55.800	1.200	0.814	55.845	424.919	480.764	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			55.800	1.200	0.300	20.088	65.763	85.851	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			56.800	1.200	0.200	13.632	81.792	95.424	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			57.500			57.500	497.500	555.000	





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

Book No. :- 134
Page No. :-

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

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

Ward No 98 500mm-Hindustan Awas I

Page 1 of 1

12th RA BILL MEASUREMENTS

Ward No 98

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	500mm Dia - Hindustan Awas I										
	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- $0.5+0.15+0.15+0.5+0.4+0.4=2.1m$										
	WNH 12										
	CH583.80	535.940	531.455	531.255			4.685				
	CH614.40	536.525	532.475	532.275			4.250	4.468			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.000	2.100	0.000	0.000		60.114	60.114
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.000	2.100	0.768	46.771		1129.540	1176.311
	(b) For Lift 1.5m to 3.0m	1			29.000	1.700	0.000	0.000		130.906	130.906
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.000	2.100	0.732	44.579		539.617	584.196
	(b) For Lift 1.5m to 3.0m	1			29.000	1.700	0.768	37.862		1096.855	1134.717
	(c) For Lift 3.0m to 4.5m	1			29.000	1.300	0.000	0.000		638.145	638.145
	(d) For Lift 4.5m to 6.0m	1			29.000	1.300	0.000	0.000		15.219	15.219
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.000	1.700	0.732	36.088		0.000	36.088
	(c) For Lift 3.0m to 4.5m	1			29.000	1.300	0.268	10.104		85.851	95.955
	(d) For Lift 4.5m to 6.0m	1			29.000	1.300	0.000	0.000		16.315	16.315
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			29.000	1.300	1.200	45.240		0.000	45.240
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.50	1.300	0.200	7.670		124.920	132.590
	Item No. : 11 Transportation of earth Transportation charges							0.000		114.311	114.311
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.000			30.000		0.000	30.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							220.644			
	Deduction										
	pipe area	1			0.785	29.000	0.650	0.650	9.618		
	Murrum bedding							7.670			
	Total = B							17.288			
	Net Qty = A - B							203.355	3386.402	3589.757	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Item 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 Jen. 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 150mm DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to for Aurangabad City.

Book No. :-
Page No. :- **135**

Ward No 98 RCC 1.5m MH

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11th RA BILL MEASUREMENTS

Ward No 98

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 RCC 1.50m dia Manhole - 1.50*0.2*0.2*0.5*0.5=2.90m										
	Breadth for Manhole=2.90*2.90=8.41m										
	400mm Dia - Near Walmi										
	WNC 2										
	CH76.20	530.642	528.112	527.762			2.880				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.700	4.621	0.000	4.621	
	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	0.000	5.281	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.380	9.111	0.000	9.111	
	Item No. : 11 Transportation of earth Transportation charges							8.698	0.000	8.698	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.013			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.530	7.170		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								8.698			
	Net Qty = A - B							10.315	0.000	10.315	
	WNC 3										
	CH132.40	530.519	528.390	528.040			2.479				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.650	4.291	4.621	8.912	
	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	0.850	5.612	5.281	10.893	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.979	6.463	9.111	15.574	
	Item No. : 11 Transportation of earth Transportation charges							7.562	8.698	16.260	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.366			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.129	6.033		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								7.562			
	Net Qty = A - B							8.804	10.315	19.119	
	WNC 4										
	CH171.10	530.890	528.510	528.160			2.730				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.700	4.621	8.912	13.534	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

ame 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) S/P and Ward No.98 to IP for Aurangabad City.

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

ame of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)
uthority No. AMC/Ward B&C/AUIDSSM1/2014/184 Date 01.07.2014

Ward No 98 RCC 1.5m MH

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	WNC 7										
	CH332.20	532.527	529.850	529.500			3.027				
	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	1.500	9.903	33.009	42.912	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	36.832	46.734	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.027	0.178	0.112	0.290	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.984			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.677	7.586			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.115			
	Net Qty = A - B							10.869	49.890	60.759	
	WNC 8										
	CH373.40	532.610	529.970	529.620			2.990				
	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	1.500	9.903	42.912	52.815	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.490	9.837	46.734	56.571	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.740			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.640	7.481			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.010			
	Net Qty = A - B							10.729	60.759	71.488	
	WNC 9										
	CH452.10	532.980	530.320	529.970			3.010				
	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	1.500	9.903	52.815	62.718	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.950	6.272	56.571	62.843	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.550	3.631	5.658	9.289	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.010	0.066	0.000	0.066	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.872			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.660	7.538			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.067			
	Net Qty = A - B							10.805	71.488	82.293	



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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. :- 133
Page No. :-

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

Ward No 98 RCC 1.5m MH

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	WNC 10										
	CH488.30	533.080	530.830	530.480			2.600				
	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	8.410	1.500	9.903	62.718	72.620	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.600	3.961	62.843	66.804	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.500	3.301	9.289	12.590	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						17.165				
	Deduction										
	Wall	1			0.785	1.900	1.900	6.376			
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
							7.905				
							Net Qty = A - B	9.260	82.293	91.553	
	WNC 24										
	CH1130.10	538.180	535.090	534.740			3.440				
	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	72.620	79.222	
	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	0.000	3.301	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.600	3.961	12.590	16.551	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.900	5.942	0.000	5.942	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.440	2.905	0.000	2.905	
	Item No. : 11 Transportation of earth Transportation charges							10.285	33.139	43.424	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						22.710				
	Deduction										
	Wall	1			0.785	1.900	1.900	8.757			
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
							10.285				
							Net Qty = A - B	12.425	91.553	103.978	
	WNC 25										
	CH1191.30	539.060	535.230	534.880			4.180				
	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	1.400	9.243	79.222	88.465	
	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	0.100	0.660	3.301	3.961	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.200	7.922	16.551	24.473	



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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 Sahib 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 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 Nakshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

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Ward No 98 RCC 1.5m MH

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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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.300	1.981	5.942	7.922	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.180	7.790	2.905	10.695	
	Item No. : 11 Transportation of earth Transportation charges							12.382	43.424	55.807	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.596			
	Deduction										
	Wall	1			0.785	1.900	1.900	3.830	10.854		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								12.382			
	Net Qty = A - B							15.213	103.978	119.191	
	WNC 26										
	CH1252.50	539.280	535.500	535.150			4.130				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903	88.465	98.368	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	24.473	34.376	
	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	1.130	7.460	10.695	18.155	
	Item No. : 11 Transportation of earth Transportation charges							12.241	55.807	68.047	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.266			
	Deduction										
	Wall	1			0.785	1.900	1.900	3.780	10.712		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								12.241			
	Net Qty = A - B							15.025	119.191	134.216	
	WNC 27										
	CH1306.20	540.840	536.161	535.811			5.029				
	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	1.400	9.243	98.368	107.610	
	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	0.100	0.660	3.961	4.621	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	34.376	44.279	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.500	9.903	0.066	9.969	
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.150	0.990	0.000	0.990	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	0.379	2.502	0.000	2.502	
	Item No. : 11 Transportation of earth Transportation charges							14.788	68.047	82.836	



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