



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. :- **075**
Page No. :-

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

Shidharth nagar , Measurement M8

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EXL							
							5.19				
							18.42	142.64	161.06		
							Net Qty = A - B				
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	SHN.6										
	CH101.00	566.534	565.334	565.134			1.400	1.305			
	CH123.00	566.554	565.444	565.344			1.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.7	0.815	0.600	9.633	0.000	9.633	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.7	0.815	0.455	7.305	141.278	148.583	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.7	0.815	0.250	4.014	32.074	36.088	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.3	0.815	0.100	1.654	17.760	19.414	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.956	28.245	32.201	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia								95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.80			20.800	0.000	20.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.952			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	20.30	0.380	0.380	2.30			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.65			
								3.96			
								17.00	161.06	178.06	
								Net Qty = A - B			
	SHN.7										
	CH123.00	566.554	565.444	565.344			1.210	1.305			
	CH150.00	566.864	565.564	565.464			1.400				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.7	0.815	0.500	10.065	9.633	19.699	



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

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity		
		No			L	B		D	Page		Qty.	
		GL	IL	EX.L								
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			24.7	0.815	0.555	11.172		148.583	159.755	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			24.7	0.815	0.250	5.033		36.088	41.121	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.3	0.815	0.100	2.062		19.414	21.476	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							4.033		32.201	36.233	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			25.80			25.800		20.800	46.600	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=-							26.270				
	Deduction of 315mm dia pipe											
	pipe area	1.00		0.785	25.30	0.315	0.315	1.97				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							2.06				
								4.03				
								Net Qty = A - B		22.24	178.06	200.30
	SHN.8											
	CH150.00	566.864	565.564	565.464			1.400					
	CH172.00	566.964	565.664	565.564			1.400					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			19.7	0.815	1.000	16.056		19.699	35.754	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			19.7	0.815	0.150	2.408		159.755	162.164	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			19.7	0.815	0.250	4.014		41.121	45.135	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.3	0.815	0.100	1.654		21.476	23.131	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.236		36.233	39.469	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	1.215	1.250	11.694			
	(b) For Lift 1.5m to 3.0m	1			7.7	0.815	0.100	0.628	41.402	53.096	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								0.000	0.628	
	(a) For Lift 0 to 1.5m	1			7.7	1.215	0.150	1.403	164.046	165.450	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	1.215	0.100	0.936	46.704	47.639	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.3	0.815	0.100	0.676	23.807	24.484	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.323	40.792	42.115	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia								95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.80			8.800	76.200	85.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction of 315mm dia pipe							14.661			
	pipe area	1.00									
	soling			0.785	8.30	0.315	0.315	0.65			
	PCC							0.00			
	Murrum bedding							0.00			
								0.68			
								1.32			
								13.34	227.32	240.68	
	SHN.11										
	CH192.00	567.384	565.784	565.684							
	CH203.00	567.884	565.884	565.784			1.700	1.900			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	1.215	1.250	13.213	53.096	66.310	
	(b) For Lift 1.5m to 3.0m	1			8.7	0.815	0.300	2.127	0.628	2.755	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	1.215	0.150	1.586	165.450	167.035	
	(b) For Lift 1.5m to 3.0m	1			8.7	0.815	0.100	0.709	15.955	16.664	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	1.215	0.100	1.057	47.639	48.696	



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

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EXL							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.767		49.957	52.724
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			22.80			22.800		0.000	22.800
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							47.025			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	22.30	0.250	0.250	1.09			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.67			
								2.77			
								44.26		343.29	387.55
	SHN.3.1 TO SHN.3.2										
	CH24.00	566.714	565.114	565.014			1.700				
	CH30.00	566.844	565.144	565.044			1.800	1.750			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	1.100	4.681		152.004	156.684
	(b) For Lift 1.5m to 3.0m	1			3.7	0.750	0.250	0.694		15.595	16.289
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	0.150	0.638		177.774	178.412
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	0.250	1.064		59.650	60.714
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.0	0.750	0.100	0.300		30.166	30.466
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.496		52.724	53.220
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.50			4.500		22.800	27.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.076			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.00	0.250	0.250	0.20			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.30			
								0.50			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- **083**
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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 Venture)

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
		Net Qty = A - B						6.58	387.55	394.13	
	SHN.3.2 TO SHN.3.3										
	CH30.00	566.844	565.144	565.044			1.800				
	CH36.00	566.574	565.174	565.074			1.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	1.100	4.681	156.684	161.365	
	(b) For Lift 1.5m to 3.0m	1			3.7	0.750	0.150	0.416	16.289	16.705	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	0.150	0.638	178.412	179.050	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.7	1.150	0.250	1.064	60.714	61.778	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.0	0.750	0.100	0.300	30.466	30.766	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.496	53.220	53.716	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia								95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.50			4.500	27.300	31.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.799			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.00	0.250	0.250	0.20			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.30			
								0.50			
								6.30	394.13	400.43	
	SHN.3.3 TO SHN.3.4										
	CH36.00	566.574	565.174	565.074			1.500				
	CH43.30	566.604	565.204	565.104			1.500	1.500			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.0	0.750	1.100	4.125	161.365	165.490	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.0	0.750	0.150	0.563	179.050	179.613	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.0	0.750	0.250	0.938	61.778	62.715	



Signature



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Name of Agency:- M/E Khilari Infrastructure Development, Dist. Eng. R/O, CIDCO, Aurangabad.

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.3	0.750	0.100	0.398		30.766	31.164
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.658		53.716	54.374
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			5.80			5.800		31.800	37.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.625			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	5.30	0.250	0.250	0.26			
	PCC							0.00			
	Murrum bedding							0.00			
								0.40			
								0.66			
								4.97		400.43	405.40
	SHN.6 TO SHN.6.1										
	CH0.00	566.534	565.334	565.234				1.300			
	CH22.00	566.404	565.404	565.304				1.200			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.0	0.750	0.800	12.000		165.490	177.490
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.0	0.750	0.150	2.250		179.613	181.863
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.0	0.750	0.250	3.750		62.715	66.465
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.3	0.750	0.100	1.523		31.164	32.686
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.518		54.374	56.892
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			20.80			20.800		37.600	58.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.000			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	20.30	0.250	0.250	1.00			
	PCC							0.00			
								0.00			



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Murrum bedding							1.52			
								2.52			
		Net Qty = A - B							15.48	405.40	420.88
	SHN.6.1 TO SHN.6.2										
	CH22.00	566.404	565.404	565.304			1.100	1.050			
	CH33.00	566.354	565.454	565.354			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	0.750	0.650	4.241		177.490	181.731
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	0.750	0.150	0.979		181.863	182.842
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	0.750	0.250	1.631		66.465	68.097
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			9.3	0.750	0.100	0.698		32.686	33.384
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.154		56.892	58.046
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			9.80			9.800		58.400	68.200
	Item No. 30 :- Refilling the excavated trenches ...							6.851			
	Total Excavation=										
	Deduction of 250mm dia pipe pipe area	1.00			0.785	9.30	0.250	0.250	0.46		
	soling							0.00			
	PCC							0.70			
	Murrum bedding							1.15			
		Net Qty = A - B							5.70	420.88	426.57
	SHN.6.2 TO SHN.6.3							1.000			
	CH33.00	566.354	565.454	565.354				1.200			
	CH43.00	566.604	565.504	565.404							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	0.750	0.700	4.043		181.731	185.774
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	0.750	0.150	0.866		182.842	183.708
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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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. :- 087
Page No. :-

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

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Shidharth nagar , Measurement M8

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	PCC							0.00			
	Murrum bedding							0.92			
								1.53			
								9.00	431.90	440.90	
	Net Qty = A - B										
	SHN.6.4 TO SHN.6.5										
	CH57.00	566.664	565.564	565.464			1.200	1.150			
	CH64.00	566.594	565.594	565.494			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.7	0.750	0.750	2.644	192.794	195.437	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.7	0.750	0.150	0.529	185.024	185.553	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.7	0.750	0.250	0.881	71.734	72.615	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.3	0.750	0.100	0.398	34.929	35.326	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.658	60.602	61.259	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia								95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			5.80			5.800	89.800	95.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.054			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	5.30	0.250	0.250	0.26			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.40			
								0.66			
								3.40	440.90	444.30	
	Net Qty = A - B										
	SHN.6.5 TO SHN.6.6										
	CH64.00	566.594	565.594	565.494			1.100	1.200			
	CH75.00	566.854	565.654	565.554			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	0.750	0.800	5.220	195.437	200.657	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.7	0.750	0.150	0.979	185.553	186.532	



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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. :-

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Page No. :-

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EXL							
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	16.30	0.250	0.250	0.80			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.22			
								2.02			
								13.87	450.97	464.85	
	SHN.10 TO SHN.10.1										
	CH0.00	567.124	565.724	565.624			1.500	1.400			
	CH12.00	567.224	566.024	565.924			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.0	0.750	0.900	6.750	211.844	218.594	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.0	0.750	0.400	3.000	188.298	191.298	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.0	0.750	0.100	0.750	77.190	77.940	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			10.3	0.750	0.100	0.773	37.246	38.019	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.278	64.435	65.713	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia								95.000	95.000	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.80			10.800	122.200	133.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.500			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	10.30	0.250	0.250	0.51			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.77			
								1.28			
								9.22	464.85	474.07	
	SHN.10.1 TO SHN.10.2										
	CH12.00	567.224	566.024	565.924			1.300	1.250			
	CH23.60	567.184	566.084	565.984			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.3	0.750	0.900	6.278	218.594	224.871	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



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

Book No. :-

093

Page No. :-

Name of Avenue:- M/s Khilari Infrastructure Pvt. Ltd. ...

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			9.3	0.750	0.250	1.744		191.298	193.042
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.3	0.750	0.100	0.698		77.940	78.638
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.9	0.750	0.100	0.743		38.019	38.761
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.228		65.713	66.941
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC -pipe of 250mm Dia	1			10.40			10.400		133.000	143.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.719			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	9.90	0.250	0.250	0.49			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.74			
								1.23			
								7.49		474.07	481.56
	Net Qty = A - B										
	SHN.10.2 TO SHN.10.3										
	CH23.60	567.184	566.084	565.984			1.200	1.350			
	CH34.90	567.544	566.144	566.044			1.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.0	0.750	0.800	5.400		224.871	230.271
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.0	0.750	0.450	3.038		193.042	196.079
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.0	0.750	0.100	0.675		78.638	79.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.6	0.750	0.100	0.720		38.761	39.481
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.191		66.941	68.132
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC -pipe of 250mm Dia	1			10.10			10.100		143.400	153.500
	Item No. 30 :- Refilling the excavated trenches ...										

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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. :- **091**
Page No. :-

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

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Shidharth nagar , Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	Total Excavation=								9.113		
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	9.60	0.250	0.250		0.47		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								0.72		
									1.19		
									7.92		
										481.56	
										489.48	
	SHN.10.3 TO SHN.10.4										
	CH34.90	567.544	566.444	566.344			1.200		1.200		
	CH44.90	567.604	566.504	566.404			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	0.750	0.800	4.620		230.271	234.891
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	0.750	0.300	1.733		196.079	197.812
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.7	0.750	0.100	0.578		79.313	79.890
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.3	0.750	0.100	0.623		39.481	40.104
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.030		68.132	69.162
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia									95.000	95.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			8.80			8.800		153.500	162.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=								6.930		
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.30	0.250	0.250		0.41		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								0.62		
									1.03		
									5.90		
										489.48	495.38
	SHN.10.4 TO SHN.10.5										
	CH44.90	567.604	566.504	566.404			1.200				
	CH62.90	567.794	566.594	566.494			1.300		1.250		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.7	0.750	0.800	9.420		234.891	244.311
	(b) For Lift 1.5m to 3.0m	1			15.7	0.750	0.000	0.000		16.705	16.705



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

Book No. :- **093**
Page No. :-

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

1 of 17

Shidharth nagar , Chamber meas.

19th RA BILL MEASUREMENTS OF CHAMBERS SHIDHARTH NAGAR

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)-1.20+0.3+0.3+0.5=2.30m										
	Area for chamber upto 2m=2.30*2.30=5.290m										
	Excavation of Chamber - For 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.3+0.3=2.80m										
	Area for chamber upto =2.8*2.8=7.84m										
	SHN.2						1.750				
	CH13.70	565.804	564.304	564.054							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								0.000	4.360	
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.050	4.360			
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.								0.000	1.869	
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.450	1.869			
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.250	1.038	0.000	1.038	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.775	0.000	2.775	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							7.267			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.500	2.02			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.77			
	Net Qty = A - B							4.49	0.000	4.49	
	SHN.3										
	CH37.40	566.694	564.394	564.144			2.550				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								4.360	9.551	
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.250	5.191	0.000	0.415	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.100	0.415			
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.								1.869	2.907	
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038			
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.950	3.945	1.038	4.983	



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