



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.

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Ambedkar Nagar(Panchashil Chowk)-300 dwc - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding						0.697				
							1.363				
							16.430	67.549	83.980		
	AMN4 TO AMN5										
	CH40.45	604.514	602.604	602.504			2.010				
	CH46.85	604.334	602.884	602.784			1.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.400	1.215	1.200	6.415	48.785	55.200	
	(b) For Lift 1.5m to 3.0m	1			4.400	0.815	0.280	1.004	28.714	29.719	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.400	1.215	0.300	1.604	12.196	13.800	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.000	0.815	0.100	0.408	2.923	3.330	
	Item No. : 11 Transportation of earth Transportation charges including loading &						0.797	5.716	6.513		
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			5.500			5.500	37.360	42.860	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						9.023				
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	5.000	0.315	0.315	0.389			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.408			
								0.797			
							8.226	83.980	92.206		
	AMN5 TO AMN6										
	CH46.85	604.334	602.884	602.784			1.550				
	CH55.75	604.274	602.904	602.804			1.470				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.215	1.200	10.060	55.200	65.260	
	(b) For Lift 1.5m to 3.0m	1			6.900	0.815	0.010	0.056	29.719	29.775	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.215	0.300	2.515	13.800	16.315	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.500	0.815	0.100	0.611	3.330	3.941	



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Ambedkar Nagar(Panchashil Chowk)-300 dwc - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.195		6.513	7.708
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.000			8.000		42.860	50.860
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.631			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	7.500	0.315	0.315	0.584			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.611			
								1.195			
								Net Qty = A - B		92.206	103.642
	AMN6 TO AMN7							11.436			
	CH55.75	604.274	602.904	602.804							
	CH64.75	604.364	602.904	602.804			1.470	1.515			
	CH64.75						1.560				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.000	1.215	1.200	10.206		65.260	75.466
	(b) For Lift 1.5m to 3.0m	1			7.000	0.815	0.015	0.086		29.775	29.860
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.000	1.215	0.300	2.552		16.315	18.867
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.600	0.815	0.100	0.619		3.941	4.561
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.211		7.708	8.920
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.100			8.100		50.860	58.960
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.843			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	7.600	0.315	0.315	0.592			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.619			
								1.211			
								Net Qty = A - B		103.642	115.273
	AMN7 TO AMN8							11.632			
	CH64.75	604.364	602.904	602.804							
	CH71.95	604.364	602.964	602.864			1.560	1.530			
	CH71.95						1.500				



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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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

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Ambedkar Nagar(Panchashil Chowk)-300 dwc - Pipe Measurement

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.200	1.215	1.200	7.582		75.466	83.048
	(b) For Lift 1.5m to 3.0m	1			5.200	0.815	0.030	0.127		29.860	29.988
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.200	1.215	0.300	1.895		18.867	20.762
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.800	0.815	0.100	0.473		4.561	5.033
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.924		8.920	9.844
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.300			6.300		58.960	65.260
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.604			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	5.800	0.315	0.315	0.452			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.473			
								0.924			
								8.680		115.273	123.953
	Net Qty = A - B										
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.065						0.065



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Ambedkar Nagar(Panchashil Chowk)-300 dwc - CHEMBER Measurement

17th RA BILL MEASUREMENTS DWG CHEMBER AMBEDKARNAGAR(PANCHASHIL CHOWK)

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 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.66m										
	Breadth for Manhole=2.66*2.66=7.0756m										
	AMN1										
	CH0.00	604.334	601.554	601.304			3.030				
	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	7.076	1.200	6.665	0.000	6.665	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.500	8.332	0.000	8.332	
	(c) For Lift 3.0m to 4.5m	1			0.785	7.076	0.030	0.167	0.000	0.167	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666	0.000	1.666	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							4.955	0.000	4.955	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.830			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.780	4.216			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								4.955			
	Net Qty = A - B							11.875	0.000	11.875	
	AMN2										
	CH23.90	604.324	601.714	601.464			2.860				
	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	7.076	1.200	6.665	6.665	13.330	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.500	8.332	8.332	16.663	
	(c) For Lift 3.0m to 4.5m	1			0.785	7.076	0.030	0.167	0.167	0.333	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666	1.666	3.333	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							4.697	4.955	9.652	
	Item No. 30 :- Refilling the excavated trenches ...										





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Ambedkar Nagar(Panchashil Chowk)-300 dwc - CHEMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Total Excavation=						16.830				
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.610	3.959			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
							4.697				
		Net Qty = A - B						12.132	11.875	24.007	
	Excavation of Chamber - For 0.9 mt. Dia of chamber up to Depth of 1.5mt- 0.9+0.5+0.3+0.3=2.0m										
	Bredth for chember up to Depth of 2m= 2 * 2=4m										
	AMN3										
	CH30.50	604.394	602.484	602.234			2.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	13.330	17.098	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.660	2.072	16.663	18.735	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	3.333	4.275	
	Item No. : 11 Transportation of earth Transportation charges							2.495	9.652	12.147	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						6.782				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.910	2.02			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						2.50				
		Net Qty = A - B						4.29	24.007	28.294	
	AMN4										
	CH40.45	604.514	602.604	602.354			2.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	17.098	20.866	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.660	2.072	18.735	20.808	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	4.275	5.217	
	Item No. : 11 Transportation of earth Transportation charges							2.495	12.147	14.642	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						6.782				





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Ambedkar Nagar(Panchashil Chowk)-300 dwc - CHEMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.910	2.02			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							2.50			
	AMN5	Net Qty = A - B						4.29	28.294	32.582	
	CH46.85	604.334	602.884	602.634			1.700				
	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	4.000	1.200	3.768	20.866	24.634	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.200	0.628	20.808	21.436	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	5.217	6.159	
	Item No. : 11 Transportation of earth Transportation charges							2.009	14.642	16.652	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.338			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.450	1.53			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							2.01			
	AMN6	Net Qty = A - B						3.33	32.582	35.910	
	CH55.75	604.274	602.904	602.654			1.620				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	24.634	28.402	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.120	0.377	21.436	21.813	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	6.159	7.101	
	Item No. : 11 Transportation of earth Transportation charges							1.925	16.652	18.576	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.087			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.370	1.45			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.92			
	AMN7	Net Qty = A - B						3.16	35.910	39.073	



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

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Ambedkar Nagar(Panchashil Chowk)-300 dwc - CHEMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
AMN7											
CH64.75		604.364	602.904	602.654			1.710				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	28.402	32.170	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.210	0.659	21.813	22.472	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	7.101	8.043	
	Item No. : 11 Transportation of earth Transportation charges							2.020	18.576	20.596	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.369			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.460	1.54			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							2.02			
		Net Qty = A - B						3.35	39.073	42.422	
AMN8											
CH71.95		604.364	602.964	602.714			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	32.170	35.938	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.150	0.471	22.472	22.943	
	(c) For Lift 3.0m to 4.5m	1			0.785	4.000	0.000	0.000	0.333	0.333	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	8.043	8.985	
	Item No. : 11 Transportation of earth Transportation charges							1.956	20.596	22.553	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.181			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.400	1.48			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							1.96			
	Total (B)							3.22	42.422	45.647	
		Net Qty = A - B						3.22	42.422	45.647	



Signature
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(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. :- **086**
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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

1 of 1

Ambedkar Nagar(Panchashil Chowk)-300 dwc - CHEMBER Details

11th R A BILL MEASUREMENTS CHEMBER DETAILS AMBEDKARNAGAR(PANCHASHIL CHOWK)

Item No. : 21 Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2 M

Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		0.00	AMN1	604.334	601.554	2.78	0.78	1.390	2.780
2		23.90	AMN2	604.324	601.714	2.61	0.61		

Extra Item No 2: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete

SR NO	MB/ Page No	Chainage	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr		Total Rebate Qty for 30 cm
				No			For per 30 cm		
				GL	IL	DEPTH			
1		30.50	AMN3	604.394	602.484	1.910	1.500	0.41	1.67
2		40.45	AMN4	604.514	602.604	1.910	1.500	0.41	
3		46.85	AMN5	604.334	602.884	1.450	1.500	-0.05	
4		55.75	AMN6	604.274	602.904	1.370	1.500	-0.13	
5		64.75	AMN7	604.364	602.904	1.460	1.500	-0.04	
6		71.95	AMN8	604.364	602.964	1.400	1.500	-0.10	
							0.50		1.67



Secy. Eng



AURANGABAD MUNICIPAL CORPORATION

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahib 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 Veneture)

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

SR NO	Description	MB/PG	ITEM 1		ITEM 2	ITEM 7	ITEM 11	ITEM 12	ITEM 13	ITEM 21	ITEM 21.1	ITEM 30	ITEM 35	Extra Item 2 0-1.5 m	Extra Item 2.a Rebate
			0-1.5	3.0-4.5											
1	For Pipe		83.048	29.988	0.000	20.762	5.033	9.844	65.260	0.260		123.953	0.065		
2	For Manhole		35.938	22.948	0.333	8.985	22.553			2.000	2.780	45.647		6.000	1.667
Total			118.986	52.936	0.333	29.747	5.033	32.397	65.260	2.000	2.780	169.600	0.065	6.000	1.667

Ambedkar Nagar(Panchashil Chowk)-300 dwc - Qty Abstract

QUANTITY ABSTRACT RA 12th
AMBEDKARNAGAR(PANCHASHIL CHOWK)

[Signature]

[Signature]



Date: _____
Measure: _____



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 083
Page No. :-

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

17th RA BILL MEASUREMENTS DWC PIPE AMBEDKAR NAGAR GALLI NO-13

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B		D	Page	
	DWC - 250mm Dia									
	Width of Trench - For Lift 0 to 1.50m- 0.25+0.5=0.75m									
	For Lift 1.5 to 3.00m- 0.25+0.5+0.4=1.15m									
	For Lift 3.0 to 4.5m- 0.25+0.5+0.4+0.4=1.55m									
	AMN1 TO AMN2									
	CH0.00	602.890	601.290	601.190			1.700	1.585		
	CH16.00	602.950	601.580	601.480			1.470			
	Item No. 1 :- Excavation for foundation/pipe trenches in									
	(a) For Lift 0 to 1.5m	1			14.3	0.750	1.150	12.334	0.000	12.334
	(b) For Lift 1.5 to 3.0m	1			14.3	0.750	0.085	0.912	0.000	0.912
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			14.3	0.750	0.250	2.681	0.000	2.681
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			14.3	0.750	0.100	1.073	0.000	1.073
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.6	0.750	0.100	1.095	0.000	1.095
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.811	0.000	1.811
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			15.10			15.100	0.000	15.100
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=							16.999		
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	14.60	0.250	0.250	0.72		
	soling							0.00		
	PCC							0.00		
	Murrum bedding							1.10		
								1.81		
	Net Qty = A - B							15.19	0.00	15.19
	AMN3 TO AMN4									
	CH0.00	601.739	599.809	599.709			2.030	1.720		
	CH11.70	601.769	600.459	600.359			1.410			
	Item No. 1 :- Excavation for foundation/pipe trenches in									
	(a) For Lift 0 to 1.5m	1			9.7	1.150	1.150	12.828	12.334	25.162
	(b) For Lift 1.5 to 3.0m	1			9.7	0.750	0.220	1.601	0.912	2.512
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			9.7	1.150	0.250	2.789	2.681	5.470



Yap



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 CRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :-

Page No. :-

089

2 of 14

Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.7	1.150	0.100	1.116		1.073	2.188
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.3	0.750	0.100	0.773		1.095	1.868
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.278		1.811	3.089
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.80			10.800		15.100	25.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.333			
	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			
	Murum bedding							0.77			
								1.28			
								17.06		15.19	32.24
	Net Qty = A - B										
	AMN4 TO AMN5										
	CH11.70	601.769	600.459	600.359			1.410	1.330			
	CH14.30	601.899	600.749	600.649			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.6	0.750	0.980	0.441		25.162	25.603
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.6	0.750	0.250	0.113		5.470	5.583
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.6	0.750	0.100	0.045		2.188	2.233
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.2	0.750	0.100	0.090		1.868	1.958
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.149		3.089	3.238
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			1.70			1.700		25.900	27.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.599			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	1.20	0.250	0.250	0.06			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.09			
								0.15			



Jay



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. :- 073
Page No. :- 073

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	AMN5 TO AMN6	Net Qty = A - B						0.45		32.24	32.69
	CH14.30	601.899	600.749	600.649			1.250	1.240			
	CH21.55	602.079	600.949	600.849			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			5.3	0.750	0.890	3.504		25.603	29.107
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			5.3	0.750	0.250	0.984		5.583	6.567
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.3	0.750	0.100	0.394		2.233	2.627
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.726		3.238	3.964
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			6.35			6.350		27.600	33.950
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.883			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	5.85	0.250	0.250	0.29			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.44			
								0.73			
	AMN6 TO AMN7	Net Qty = A - B						4.16		32.69	36.85
	CH21.55	602.079	600.949	600.849			1.230	1.203			
	CH31.10	602.624	601.549	601.449			1.175				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			7.6	0.750	0.853	4.827		29.107	33.935
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			7.6	0.750	0.250	1.416		6.567	7.983
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			7.6	0.750	0.100	0.566		2.627	3.193
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.2	0.750	0.100	0.611		2.396	3.008
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.011		3.964	4.975



J.P.



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. 091
Page No. :-

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			8.65			8.650		33.950	42.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.809			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.15	0.250	0.250	0.40			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.61			
								1.01			
								5.80		36.85	42.65
	AMN8 TO AMN9										
	CH0.00	602.694	601.564	601.464			1.230				
	CH6.20	602.984	601.734	601.634			1.350	1.290			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			4.2	0.750	0.940	2.961		33.935	36.896
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.2	0.750	0.250	0.788		7.983	8.770
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.2	0.750	0.100	0.315		3.193	3.508
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.8	0.750	0.100	0.360		3.008	3.368
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.596		4.975	5.570
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			5.30			5.300		42.600	47.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.064			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.80	0.250	0.250	0.24			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.36			
								0.60			
								3.47		42.65	46.12
	AMN9 TO AMN10										
	CH6.20	602.984	601.734	601.634			1.350				
	CH9.30	602.984	601.784	601.684			1.300	1.325			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			1.1	0.750	0.975	0.804		36.896	37.700
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



Jy2



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

092

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

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			1.1	0.750	0.250	0.206		8.770	8.976
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.1	0.750	0.100	0.083		3.508	3.591
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.7	0.750	0.100	0.128		3.368	3.495
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.211		5.570	5.781
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.20			2.200		47.900	50.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.093			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	1.70	0.250	0.250	0.08			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.13			
								0.21			
								0.88		46.12	47.00
	AMN10 TO AMN11										
	CH9.30	602.984	601.784	601.684			1.300				
	CH18.30	602.874	601.894	601.794			1.080	1.190			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			7.0	0.750	0.840	4.410		37.700	42.110
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.0	0.750	0.250	1.313		8.976	10.289
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.0	0.750	0.100	0.525		3.591	4.116
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.6	0.750	0.100	0.570		3.495	4.065
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.943		5.781	6.724
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			8.10			8.100		50.100	58.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.248			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	7.60	0.250	0.250	0.37			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.57			



Jy2



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

Book No. :- 093

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
							0.94				
		Net Qty = A - B						5.30	47.00	52.30	
	AMN11 TO AMN12										
	CH18.30	602.874	601.894	601.794			1.080				
	CH26.20	602.734	601.914	601.814			0.920	1.000			
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			5.9	0.750	0.650	2.876	42.110	44.986	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			5.9	0.750	0.250	1.106	10.289	11.395	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			5.9	0.750	0.100	0.443	4.116	4.558	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.5	0.750	0.100	0.488	4.065	4.553	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.806	6.724	7.531	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			7.00			7.000	58.200	65.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.425			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	6.50	0.250	0.250	0.32			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.49			
								0.81			
		Net Qty = A - B						3.62	52.30	55.92	
	AMN12 TO AMN13										
	CH26.20	602.734	601.914	601.814			0.920	0.980			
	CH37.30	602.974	602.034	601.934			1.040				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			9.1	0.750	0.730	4.982	44.986	49.969	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			9.1	0.750	0.250	1.706	11.395	13.101	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.7	0.750	0.100	0.728	4.553	5.280	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.203	7.531	8.734	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.20			10.200	65.200	75.400	
	Item No. 30 :- Refilling the excavated trenches ...										



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Measurement Book

094

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Total Excavation=									6.689
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	9.70	0.250	0.250	0.48		
	soling							0.00		
	PCC							0.00		
	Murram bedding							0.73		
								1.20		
								5.49		
	AMN13 TO AMN14								55.92	61.41
	CH37.30	602.974	602.034	601.934			1.040			
	CH48.00	603.154	602.114	602.014			1.140	1.090		
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			8.7	0.750	0.740	4.829	49.969	54.797
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete. (a) For Lift 0 to 1.5m	1			8.7	0.750	0.250	1.631	13.101	14.733
	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	0.100	0.653	4.558	5.211
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.3	0.750	0.100	0.698	5.280	5.978
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.154	8.734	9.888
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			9.80			9.800	75.400	85.200
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=									7.112
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	9.30	0.250	0.250	0.46		
	soling							0.00		
	PCC							0.00		
	Murram bedding							0.70		
								1.15		
								5.96	61.41	67.36
	AMN14 TO AMN15									
	CH48.00	603.154	602.114	602.014			1.140			
	CH59.10	603.344	602.324	602.224			1.120	1.130		
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			9.1	0.750	0.780	5.324	54.797	60.121
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete. (a) For Lift 0 to 1.5m	1			9.1	0.750	0.250	1.706	14.733	16.439
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			9.1	0.750	0.100	0.683	5.211	5.893



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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 Nakhtrawadi (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 G.P.P. line from Golwadi SDS to Nakhtrawadi (Kanchanwadi) STP and Ward No 98 to

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.7	0.750	0.100	0.728		5.978	6.705
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.203		9.888	11.091
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.20			10.200		85.200	95.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.712			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	9.70	0.250	0.250	0.48			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.73			
								1.20			
								6.51		67.36	73.87
	AMN15 TO AMN16										
	CH59.10	603.344	602.324	602.224			1.120				
	CH68.90	603.504	602.594	602.494			1.010	1.065			
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			7.8	0.750	0.715	4.183		60.121	64.303
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. (a) For Lift 0 to 1.5m	1			7.8	0.750	0.250	1.463		16.439	17.901
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			7.8	0.750	0.100	0.585		5.893	6.478
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.4	0.750	0.100	0.630		6.705	7.335
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.042		11.091	12.133
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			8.90			8.900		95.400	104.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.230			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.40	0.250	0.250	0.41			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.63			
								1.04			
								5.19		73.87	79.06
	AMN16 TO AMN17										
	CH68.90	603.504	602.594	602.494			1.010				
	CH75.80	603.884	602.854	602.754			1.130	1.070			



Signature



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 Nakshurwadi (Kanchunwadi), 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.08 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising main

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9 of 14 Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			4.9	0.750	0.720	2.646		64.303	66.949	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			4.9	0.750	0.250	0.919		17.901	18.820	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			4.9	0.750	0.100	0.368		6.478	6.846	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.5	0.750	0.100	0.413		7.335	7.748	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.682		12.133	12.816	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			6.00			6.000		104.300	110.300	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							3.932				
	Deduction of 250mm dia pipe											
	pipe area	1.00		0.785	5.50	0.250	0.250	0.27				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							0.41				
								0.68				
								Net Qty = A - B		3.25	79.06	82.31
	AMN18 TO AMN19											
	CH0.00	602.144	600.934	600.834			1.310					
	CH5.00	602.394	601.034	600.934			1.460	1.385				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			3.0	0.750	1.035	2.329		66.949	69.278	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			3.0	0.750	0.250	0.563		18.820	19.383	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			3.0	0.750	0.100	0.225		6.846	7.071	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.6	0.750	0.100	0.270		7.748	8.018	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.447		12.816	13.262	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.10			4.100		110.300	114.400	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							3.116				



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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

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Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	3.60	0.250	0.250	0.18		
	soling							0.00		
	PCC							0.00		
	Murrum bedding							0.27		
								0.45		
								2.67	82.31	84.98
	AMN19 TO AMN20									
	CH5.00	602.394	601.034	600.934			1.460	1.555		
	CH18.20	602.824	601.274	601.174			1.650			
	Item No. 1 :- Excavation for foundation/pipe trenches in									
	(a) For Lift 0 to 1.5m	1			11.2	0.750	1.150	9.660	69.278	78.938
	(b) For Lift 1.5 to 3.0m	1			11.2	0.750	0.055	0.462	2.512	2.974
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			11.2	0.750	0.250	2.100	19.383	21.483
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			11.2	0.750	0.100	0.840	7.071	7.911
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
	(a) For Lift 0 to 1.5m	1			11.8	0.750	0.100	0.885	8.018	8.903
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.464	13.262	14.726
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia									
	(a) For Lift 0 to 1.5m	1			12.30			12.300	114.400	126.700
	Item No. 30 :- Refilling the excavated trenches ...									
								13.062		
	Total Excavation=									
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	11.80	0.250	0.250	0.58		
	soling							0.00		
	PCC							0.89		
	Murrum bedding							1.46		
								11.60	84.98	96.58
	AMN20 TO AMN21									
	CH18.20	602.824	601.274	601.174			1.650	1.375		
	CH27.80	603.014	602.014	601.914			1.100			
	Item No. 1 :- Excavation for foundation/pipe trenches in									
	(a) For Lift 0 to 1.5m	1			7.6	0.750	1.025	5.843	78.938	84.781
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			7.6	0.750	0.250	1.425	21.483	22.908
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			7.6	0.750	0.100	0.570	7.911	8.481



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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.08 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

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11 of 14 Ambedkarnagar Galli no-13-250mm - Measurement Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EXL							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.2	0.750	0.100	0.615		8.903	9.518
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.017		14.726	15.744
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			8.70			8.700		126.700	135.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.838			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	8.20	0.250	0.250	0.40			
	PCC							0.00			
	Murrum bedding							0.00			
								0.62			
								1.02			
	AMN22 TO AMN23							6.82		96.58	103.40
	CH0.00	600.909	599.669	599.569							
	CH11.00	601.189	600.289	600.189			1.340	1.170			
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			9.0	0.750	0.920	6.210		84.781	90.991
	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	0.250	1.688		22.908	24.595
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.6	0.750	0.100	0.720		9.518	10.238
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.191		15.744	16.935
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.10			10.100		135.400	145.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.898			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	9.60	0.250	0.250	0.47			
	PCC							0.00			
	Murrum bedding							0.00			
								0.72			
								1.19			
	AMN23 TO AMN24							6.71		103.40	110.11
	CH11.00	601.189	600.289	600.189			1.000	1.150			
	CH18.30	601.489	600.289	600.189			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			5.3	0.750	0.900	3.578		90.991	94.568



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