



# 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. :-

Page No. :-

011

3 of 29

Bansilal Nagar, Measurement MB

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			12.3	1.215	1.500	22.326		44.560	66.886
	(b) For Lift 1.5m to 3.0m	1			12.3	0.815	0.300	2.995		7.967	10.962
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.3	1.215	0.000	0.000		0.000	0.000
	(b) For Lift 1.5m to 3.0m	1			12.3	0.815	0.160	1.597		2.966	4.564
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.6	0.815	0.100	1.023		2.042	3.064
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.000		3.993	5.993
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.80			12.800		25.800	38.600
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>26.918</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	12.55	0.315	0.315	0.98			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.02			
								2.00			
								<b>24.92</b>		<b>51.50</b>	<b>76.42</b>
<b>22/09/16</b>	<b>E 19.32.02</b>										
	CH41.00	566.525	564.845	564.745			1.780	1.790			
	CH51.60	566.595	564.895	564.795			1.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	1.500	17.223		66.886	84.108
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.100	0.770		10.962	11.732
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.000	0.000		0.000	0.000
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.190	1.463		4.564	6.027
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.8	0.815	0.100	0.795		3.064	3.859
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.554		5.993	7.547
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.00			10.000		38.600	48.600
	Item No. 30 :- Refilling the excavated trenches ...										



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Book No. :- 012

Page No. :-

4 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Total Excavation=</b>										
	Deduction of 315mm dia pipe							19.456			
	pipe area	1.00		0.785	9.75	0.315	0.315	0.76			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.79			
								1.55			
		Net Qty = A - B							17.90	76.42	94.32
22/09/16											
	CH51.60	566.595	564.895	564.795			1.800	1.870			
	CH62.20	566.795	564.956	564.856			1.939				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	1.500	17.223	84.108	101.331	
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.000	0.000	11.732	11.732	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.000	0.000	0.000	0.000	
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.370	2.850	6.027	8.877	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.8	0.815	0.100	0.795	3.859	4.654	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.554	7.547	9.101	
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.00			10.000	48.600	58.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							20.072			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.75	0.315	0.315	0.76			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.79			
								1.55			
		Net Qty = A - B							18.52	94.32	112.84
23/09/16	E 19.32.03										
	CH62.20	566.795	565.155	565.055			1.740	1.750			
	CH82.20	566.875	565.215	565.115			1.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.9	1.215	1.500	34.354	101.331	135.685	
	(b) For Lift 1.5m to 3.0m	1			18.9	0.815	0.000	0.000	11.732	11.732	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.9	1.215	0.000	0.000	0.000	0.000	
	(b) For Lift 1.5m to 3.0m	1			18.9	0.815	0.250	3.841	8.877	12.717	



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# AURANGABAD MUNICIPAL CORPORATION.

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## Measurement Book

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

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

5 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.2	0.815	0.100	1.561		4.654	6.214
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.052		9.101	12.154
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			19.40			19.400		58.600	78.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>38.195</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	19.15	0.315	0.315	1.49			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.56			
								3.05			
								<b>Net Qty = A - B</b>		<b>35.14</b>	<b>112.84</b>
23/09/16											<b>147.98</b>
	CH82.20	566.875	565.215	565.115				1.760			
	CH99.60	567.145	565.275	565.175				1.970			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			16.3	1.215	1.500	29.616		135.685	165.301
	(b) For Lift 1.5m to 3.0m	1			16.3	0.815	0.000	0.000		11.732	11.732
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			16.3	1.215	0.000	0.000		0.000	0.000
	(b) For Lift 1.5m to 3.0m	1			16.3	0.815	0.365	4.834		12.717	17.551
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.6	0.815	0.100	1.349		6.214	7.563
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.638		12.154	14.792
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			16.80			16.800		78.000	94.800
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>34.450</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	16.55	0.315	0.315	1.29			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.35			
								2.64			
								<b>Net Qty = A - B</b>		<b>31.81</b>	<b>147.98</b>
24/09/16	E 19.32.04										<b>179.79</b>
	CH99.60	567.145	565.375	565.275				1.870			
	CH112.80	567.305	565.435	565.335				1.970			



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Book No. :-  
Page No. :- **015**

7 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	<b>Total Excavation=</b>						27.953				
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	13.35	0.315	0.315	1.04			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.09			
								2.13			
								<b>25.82</b>	<b>201.56</b>	<b>227.38</b>	
	<b>Net Qty = A - B</b>										
26/09/16	CH127.00	567.405	565.595	565.495			1.910	1.895			
	CH141.20	567.435	565.655	565.555			1.880				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.1	1.215	1.500	23.784		208.950	232.733
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			13.1	0.815	0.395	4.201		23.675	27.876
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.4	0.815	0.100	1.088		9.588	10.677
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.128		18.752	20.880
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.60			13.600		120.400	134.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							27.985			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	13.35	0.315	0.315	1.04			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.09			
								2.13			
								<b>25.86</b>	<b>227.38</b>	<b>253.24</b>	
	<b>Net Qty = A - B</b>										
27/09/16	E 19.32.06										
	CH141.20	567.435	565.955	565.855			1.580	1.625			
	CH153.20	567.555	565.985	565.885			1.670				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	1.200	15.819		232.733	248.553
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	0.300	3.955		0.000	3.955
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.125	1.105		27.876	28.981
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.2	0.815	0.100	0.909		10.677	11.585



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(From No.52)

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Book No. :- 016

Page No. :-

8 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.777		20.880	22.658
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.40			11.400		134.000	145.400
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							20.879			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	11.15	0.315	0.315	0.87			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.91			
								1.78			
								<b>19.10</b>		<b>253.24</b>	<b>272.34</b>
28/09/16											
	CH153.20	567.555	565.985	565.885				1.670			
	CH166.70	567.615	566.025	565.925				1.690	1.680		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.4	1.215	1.200	18.006		248.553	266.559
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.4	1.215	0.300	4.502		3.955	8.456
	(b) For Lift 1.5m to 3.0m	1			12.4	0.815	0.180	1.812		28.981	30.793
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.7	0.815	0.100	1.031		11.585	12.616
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.016		22.658	24.674
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.90			12.900		145.400	158.300
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							24.320			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	12.65	0.315	0.315	0.99			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.03			
								2.02			
								<b>22.30</b>		<b>272.34</b>	<b>294.64</b>
29/09/16	E 19.32.07										
	CH166.70	567.615	566.045	565.945				1.670			
	CH178.70	567.705	566.085	565.985				1.720	1.695		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	1.300	17.138		266.559	283.696



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Book No. :-

Page No. :-

017

Bansilal Nagar, Measurement MB

9 of 29

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	0.200	2.637		8.456	11.098
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.195	1.724		30.793	32.517
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.2	0.815	0.100	0.909		12.616	13.525
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.777		24.674	26.451
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.40			11.400		158.300	169.700
	Item No. 30 :- Refilling the excavated trenches ...							21.498			
	<b>Total Excavation=</b>										
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.15	0.315	0.315	0.87			
	soling							0.00			
	PCC							0.91			
	Murrum bedding							1.78			
								19.72		294.64	314.36
	<b>Net Qty = A - B</b>										
29/09/16							1.720	1.800			
	CH178.70	567.705	566.085	565.985			1.880				
	CH193.60	567.905	566.125	566.025							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.8	1.215	1.300	21.718		283.696	305.415
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.8	1.215	0.200	3.341		11.093	14.434
	(b) For Lift 1.5m to 3.0m	1			13.8	0.815	0.300	3.362		32.517	35.879
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.1	0.815	0.100	1.145		13.525	14.670
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.239		26.451	28.690
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.30			14.300		169.700	184.000
	Item No. 30 :- Refilling the excavated trenches ...							28.421			
	<b>Total Excavation=</b>										
	Deduction of 315mm dia pipe							1.09			
	pipe area	1.00		0.785	14.05	0.315	0.315	0.00			
	soling							0.00			
	PCC							1.15			
	Murrum bedding							2.24			



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# AURANGABAD MUNICIPAL CORPORATION.

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## Measurement Book

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Book No. :- 018

Page No. :-

10 of 29

Bansali Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
		Net Qty = A - B						26.18	314.36	340.55	
01/10/16	E 19.32.08										
	CH193.60	567.905	566.175	566.075			1.830				
	CH206.60	568.005	566.215	566.115			1.890	1.860			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.9	1.215	1.300	18.717	305.415	324.132	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.9	1.215	0.200	2.880	14.434	17.314	
	(b) For Lift 1.5m to 3.0m	1			11.9	0.815	0.360	3.477	35.879	39.356	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.2	0.815	0.100	0.990	14.670	15.660	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.937	28.690	30.627	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.40			12.400	184.000	196.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.073			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	12.15	0.315	0.315	0.95			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.99			
								1.94			
		Net Qty = A - B						23.14	340.55	363.69	
01/10/16											
	CH206.60	568.005	566.215	566.115			1.890				
	CH214.70	568.225	566.255	566.155			2.070	1.980			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.9	1.215	1.400	11.822	324.132	335.954	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.9	1.215	0.100	0.844	17.314	18.158	
	(b) For Lift 1.5m to 3.0m	1			6.9	0.815	0.480	2.719	39.356	42.075	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.2	0.815	0.100	0.591	15.660	16.251	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.156	30.627	31.783	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.50			7.500	196.400	203.900	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

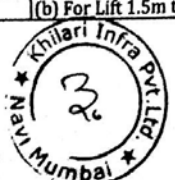
**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtravadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport),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

Book No. :-  
Page No. :- 019

11 of 29

Bansial Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>15.385</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	7.25	0.315	0.315	0.56			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.59			
								1.16			
	<b>Net Qty = A - B</b>							<b>14.23</b>	<b>363.68</b>	<b>377.94</b>	
04/10/16	E 19.32.09										
	CH214.70	568.225	566.285	566.185			2.040	2.040			
	CH231.20	568.265	566.325	566.225			2.040				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.4	1.215	1.500	27.975	335.954	363.929	
	(b) For Lift 1.5m to 3.0m	1			15.4	0.815	0.100	1.251	13.509	14.760	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			15.4	0.815	0.440	5.505	42.075	47.578	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.7	0.815	0.100	1.275	16.251	17.527	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.494	31.783	34.277	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.90			15.900	203.900	219.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>34.731</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	15.65	0.315	0.315	1.22			
	soling							0.00			
	PCC							1.28			
	Murum bedding							2.49			
								2.49			
	<b>Net Qty = A - B</b>							<b>32.24</b>	<b>377.91</b>	<b>410.15</b>	
04/10/16											
	CH231.20	568.265	566.325	566.225			2.040	2.065			
	CH247.70	568.355	566.365	566.265			2.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.4	1.215	1.500	27.975	363.929	391.904	
	(b) For Lift 1.5m to 3.0m	1			15.4	0.815	0.100	1.251	14.760	16.011	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			15.4	0.815	0.465	5.817	47.579	53.397	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- 020  
Page No. :-

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

12 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.7	0.815	0.100	1.275		17.527	18.802
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.494		34.277	36.772
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.90			15.900		219.800	235.700
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							35.044			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	15.65	0.315	0.315	1.22			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.28			
								2.49			
								<b>32.55</b>		<b>410.15</b>	<b>442.70</b>
04/10/16	E 19.32.10										
	CH247.70	568.355	566.405	566.305				2.050			
	CH259.70	568.435	566.445	566.345				2.090			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	1.500	19.774		391.904	411.678
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.200	1.769		16.011	17.779
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.370	3.272		53.397	56.668
	Item No. 7 :- Filling-in plinth and floors/ trenches etc complete.(bedding)	1			11.2	0.815	0.100	0.909		18.802	19.711
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.777		36.772	38.549
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.40			11.400		235.700	247.100
	Item No. 30 :- Refilling the excavated trenches...										
	<b>Total Excavation=</b>							24.814			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	11.15	0.315	0.315	0.87			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.91			
								1.78			
								<b>23.04</b>		<b>442.70</b>	<b>465.74</b>
04/10/16											
	CH259.70	568.435	566.445	566.345				2.090			
	CH273.10	568.505	566.495	566.395				2.110			





# 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) sine line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. : **021**  
Page No. :-

13 of 29

Bansilal Nagar, Measurement MB

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			12.3	1.215	1.500	22.326		411.678	434.004
	(b) For Lift 1.5m to 3.0m	1			12.3	0.815	0.300	2.995		17.779	20.774
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			12.3	0.815	0.300	2.995		56.668	59.664
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.6	0.815	0.100	1.023		19.711	20.734
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.000		38.549	40.549
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.80			12.800		247.100	259.900
	Item No. 30 :- Refilling the excavated trenches ...							28.316			
	<b>Total Excavation=</b>										
	Deduction of 315mm dia pipe pipe area	1.00		0.785	12.55	0.315	0.315	0.98			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.02			
								2.00			
	<b>Net Qty = A - B</b>							<b>26.32</b>		<b>465.74</b>	<b>492.05</b>
08/10/16	E 19.32.11										
	CH273.10	568.505	566.575	566.475			2.030	2.055			
	CH293.70	568.585	566.605	566.505			2.080				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.5	1.215	1.500	35.448		434.004	469.452
	(b) For Lift 1.5m to 3.0m	1			19.5	0.815	0.150	2.378		20.774	23.152
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.5	0.815	0.405	6.420		59.664	66.084
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.8	0.815	0.100	1.610		20.734	22.343
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.148		40.549	43.697
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.00			20.000		259.900	279.900
	Item No. 30 :- Refilling the excavated trenches ...							44.245			
	<b>Total Excavation=</b>										
	Deduction of 315mm dia pipe										



19/11

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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :- **022**  
Page No. :-

14 of 29

Bansil Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1.00		0.785	19.75	0.315	0.315	1.54			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.61			
								3.15			
								<b>41.10</b>	<b>492.05</b>	<b>533.15</b>	
08/10/16											
	CH293.70	568.585	566.605	566.505				2.080			
	CH314.40	568.635	566.635	566.535				2.100			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.6	1.215	1.500	35.630	469.452	505.082	
	(b) For Lift 1.5m to 3.0m	1			19.6	0.815	0.150	2.390	23.152	25.542	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.6	0.815	0.440	7.011	66.084	73.094	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.9	0.815	0.100	1.618	22.343	23.961	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.164	43.697	46.861	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.10			20.100	279.900	300.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>45.030</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	19.85	0.315	0.315	1.55			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.62			
								3.16			
								<b>41.87</b>	<b>533.15</b>	<b>575.01</b>	
08/10/16	E 19.32.12										
	CH314.40	568.635	566.735	566.635				2.000			
	CH324.40	568.785	566.765	566.665				2.120			
	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	1.500	14.033	505.082	519.115	
	(b) For Lift 1.5m to 3.0m	1			7.7	0.815	0.200	1.255	25.542	26.797	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			7.7	0.815	0.360	2.259	73.094	75.353	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.3	0.815	0.100	0.676	23.961	24.637	



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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

Book No. :- 024  
Page No. :-

16 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(b) For Lift 1.5m to 3.0m	1			15.9	0.815	0.100	1.292		28.089	29.381
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			15.9	0.815	0.550	7.105		81.812	88.917
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.2	0.815	0.100	1.316		25.954	27.270
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.574		50.758	53.332
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			16.40			16.400		325.200	341.600
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							37.283			
	Deduction of 315mm dia pipe pipe area	1.00		0.785	16.15	0.315	0.315	1.26			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.32			
								2.57			
								<b>34.71</b>		<b>625.30</b>	<b>660.01</b>
	<b>Net Qty = A - B</b>										
10/10/16	E 19.32.14										
	CH358.40	568.935	566.905	566.805			2.130	2.155			
	CH370.40	569.015	566.935	566.835			2.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.7	1.215	1.500	17.678		576.888	594.566
	(b) For Lift 1.5m to 3.0m	1			9.7	0.815	0.150	1.186		29.381	30.567
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			9.7	0.815	0.505	3.992		88.917	92.909
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding).	1			10.3	0.815	0.100	0.839		27.270	28.109
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.642		53.332	54.974
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.80			10.800		341.600	352.400
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							22.856			
	Deduction of 315mm dia pipe pipe area	1.00		0.785	10.30	0.315	0.315	0.80			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.84			
								1.64			



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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

Book No. :-  
Page No. :- **025**

17 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						21.21		660.01	681.23
10/10/16	CH370.40	569.015	566.935	566.835			2.180	2.310			
	CH381.40	569.305	566.965	566.865			2.440				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.9	1.215	1.500	17.952	594.566	612.518	
	(b) For Lift 1.5m to 3.0m	1			9.9	0.815	0.200	1.606	30.567	32.172	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			9.9	0.815	0.610	4.897	92.909	97.806	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.2	0.815	0.100	0.827	28.109	28.937	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.618	54.974	56.592	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.40			10.400	352.400	362.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>24.454</b>			
	Deduction of 315mm dia pipe pipe area	1.00		0.785	10.15	0.315	0.315	0.79			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.83			
								1.62			
		Net Qty = A - B						22.84		681.23	704.06
14/10/16	E 19.32.15										
	CH381.40	569.305	567.035	566.935			2.370	2.445			
	CH391.40	569.505	567.085	566.985			2.520				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.9	1.215	1.500	16.129	612.518	628.647	
	(b) For Lift 1.5m to 3.0m	1			8.9	0.815	0.400	2.885	32.172	35.057	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			8.9	0.815	0.545	3.931	97.806	101.737	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.2	0.815	0.100	0.746	28.937	29.682	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.458	56.592	58.050	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.40			9.400	362.800	372.200	









# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :-

Page No. :- **027**

19 of 79

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.2	0.815	0.100	0.583		30.558	31.141
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.140		59.764	60.904
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.40			7.400		383.200	390.600
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>18.039</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	7.15	0.315	0.315	0.56			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.58			
								<b>1.14</b>			
								<b>16.90</b>		<b>751.65</b>	<b>768.55</b>
<b>14/10/16</b>											
	CH411.00	569.625	567.225	567.125			2.500				
	CH424.60	569.735	567.255	567.155			2.580	2.540			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.5	1.215	1.500	22.690		660.176	682.866
	(b) For Lift 1.5m to 3.0m	1			12.5	0.815	0.500	5.073		41.549	46.622
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			12.5	0.815	0.540	5.479		109.573	115.052
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.8	0.815	0.100	1.039		31.141	32.180
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.032		60.904	62.936
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.00			13.000		390.600	403.600
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>33.243</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	12.75	0.315	0.315	0.99			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.04			
								<b>2.03</b>			
								<b>31.21</b>		<b>768.55</b>	<b>799.76</b>
<b>15/10/16</b>	<b>E 19.32.17</b>										
	CH424.60	569.735	567.305	567.205			2.530	2.550			
	CH436.60	569.805	567.335	567.235			2.570				



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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

Book No. :- 028

Page No. :-

20 of 29

Bansilal Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	1.500	19.774		682.866	702.641
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.500	4.421		46.622	51.043
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.550	4.864		115.052	119.915
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.2	0.815	0.100	0.909		32.180	33.089
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.777		62.936	64.713
	<b>Item No. 13 :-</b> (d)Lowering & Laying of Polyethylgne DWC pipe of 315mm Dia	1			11.40			11.400		403.600	415.000
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							29.059			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	11.15	0.315	0.315	0.87			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.91			
								1.78			
	<b>Net Qty = A - B</b>							27.28		799.76	827.04
15/10/16											
	CH436.60	569.805	567.335	567.235				2.570	2.550		
	CH450.80	569.825	567.395	567.295				2.530			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.1	1.215	1.500	23.784		702.641	726.424
	(b) For Lift 1.5m to 3.0m	1			13.1	0.815	0.500	5.318		51.043	56.361
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			13.1	0.815	0.550	5.850		119.915	125.765
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.4	0.815	0.100	1.088		33.089	34.177
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							2.128		64.713	66.841
	<b>Item No. 13 :-</b> (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.60			13.600		415.000	428.600
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							34.951			
	<b>Deduction of 315mm dia pipe</b>										



TSM

*[Handwritten Signature]*