



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

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Page No. :-

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Balaji Nagar Nathnagar-02Meas. SW

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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.000	1.240	0.200	3.968		13.958	17.926
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.000	1.240	0.270	5.357		18.843	24.200
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.000	0.840	0.100	1.428		5.771	7.199
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.795		11.293	14.088
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			17.500			17.500		70.700	88.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							32.112			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	17.000	0.320	0.320	1.367			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.428			
								2.795			
	Net Qty = A - B							29.317		95.299	124.616
	315mm DWC Pipe										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	BNR 10.5 TO BNR 10.6										
	CH94.20	584.240	582.440	582.340				1.900		1.850	
	CH100.70	584.280	582.580	582.480				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			3.800	1.215	0.980	4.525		89.357	93.882
	(b) For Lift 1.5m to 3.0m	1			3.800	0.815	0.350	1.084		7.221	8.305
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.800	1.215	0.200	0.923		17.926	18.849
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.800	1.215	0.320	1.477		24.200	25.677
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.800	0.815	0.100	0.391		7.199	7.590





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Balaji Nagar Nathnagar-02Meas. SW

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.800	0.840	0.100	0.907		8.307	9.214
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.775		16.255	18.031
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			11.300			11.300		88.200	99.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.793			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	10.800	0.320	0.320	0.868			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.907			
								1.775			
								19.018		144.119	163.136
	Net Qty = A - B										
	BNR 10.9 TO BNR 10.10										
	CH124.20	584.447	582.720	582.620			1.827				
	CH138.60	584.470	582.870	582.770			1.700	1.764			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.700	1.240	1.200	17.410		36.299	53.709
	(b) For Lift 1.5m to 3.0m	1			11.700	0.840	0.264	2.595		1.350	3.945
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.700	1.240	0.300	4.352		31.966	36.319
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.700	0.840	0.100	1.067		9.214	10.281
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.088		18.031	20.118
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			13.200			13.200		99.500	112.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							24.357			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	12.700	0.320	0.320	1.021			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.067			
								2.088			
								22.269		163.136	185.405
	Net Qty = A - B										
	BNR 10.10 TO BNR 10.11										
	CH138.60	584.470	582.870	582.770			1.700				
	CH150.60	584.330	582.870	582.770			1.560	1.630			



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Balaji Nagar Nathnagar-02Meas. SW

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			9.300	1.240	1.200	13.838	53.709	67.547	
	(b) For Lift 1.5m to 3.0m	1			9.300	0.840	0.130	1.016	3.945	4.960	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	1.240	0.300	3.460	36.319	39.778	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.300	0.840	0.100	0.865	10.281	11.146	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.693	20.118	21.812	
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			10.800			10.800	112.700	123.500	
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							18.314			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	10.300	0.320	0.320	0.828			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.865			
								1.693			
								16.620	185.405	202.026	
	Net Qty = A - B										
	BNR 10.11 TO BNR 10.12										
	CH150.60	584.330	582.870	582.770			1.560				
	CH162.60	584.340	582.890	582.790			1.550	1.555			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.840	0.980	7.656	101.979	109.634	
	(b) For Lift 1.5m to 3.0m	1			9.300	0.840	0.055	0.430	9.414	9.843	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.840	0.200	1.562	67.547	69.109	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.840	0.320	2.500	39.778	42.278	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.300	0.840	0.100	0.865	11.146	12.012	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.693	21.812	23.505	
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			10.800			10.800	123.500	134.300	
	Item No. 30 :- Refilling the excavated trenches ...										



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Balaji Nagar Nathnagar-02Meas. SW

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=							12.148			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	10.300	0.320	0.320	0.828			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.865			
								1.693			
								Net Qty = A - B			
								10.455	202.026	212.480	
	BNR 10.12 TO BNR 10.13										
	CH162.60	584.340	582.890	582.790							
	CH173.20	584.320	582.920	582.820			1.550	1.525			
							1.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.840	0.980	6.503	109.634	116.138	
	(b) For Lift 1.5m to 3.0m	1			7.900	0.840	0.025	0.166	9.843	10.009	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.840	0.200	1.327	69.109	70.437	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.840	0.320	2.124	42.278	44.402	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.900	0.840	0.100	0.748	12.012	12.759	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.463	23.505	24.968	
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia	1			9.400			9.400	134.300	143.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.120			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	8.900	0.320	0.320	0.715			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.748			
								1.463			
								Net Qty = A - B			
								8.657	212.480	221.137	
	150mm SW Pipe										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.150+0.02+0.02+0.5=0.690m										
	For Lift 1.5 to 3.00m- 0.150+0.02+0.02+0.5+0.4=1.09m										
	For Lift 3.0 to 4.5m- 0.150+0.5+0.02+0.02+0.4+0.4=1.490m										
	BNR 10.8 TO BNR 10.8.1										



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Balaji Nagar Nathnagar-02Meas. SW

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH0.00	584.320	583.520	583.420			0.900	0.675			
	CH5.10	584.400	584.050	583.950			0.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.690	0.155	0.310	116.138	116.448	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.690	0.200	0.400	70.437	70.837	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.690	0.320	0.640	44.402	45.042	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.700	0.690	0.100	0.255	12.759	13.015	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.339	24.968	25.307	
	Extra Item no.9.2 (b) :- Lowering & Laying of SWG pipe of 150mm Dia	1			4.200			4.200	0.000	4.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.351			
	Deduction of 150mm dia pipe										
	pipe area	1.00		0.785	3.700	0.170	0.170	0.084			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.255			
								0.339			
								1.011	221.137	222.149	
	Net Qty = A - B										
	Connections at BNG6,BNG9,BNG10,BNG11,BNG12,BNG13,BNG14. Average depth is 0.75m,SW Pipe Dia-150mm										
	Total Length= 1.7+1+1.60+2+1.5+2+1.5+1.60+1.5+2+2+2+2.5+1.5+2+1 0.750										
	Excavation=((1.7+1+1.6+2+1.5+1.6+1.5+2+1.5+2+2+2.5+2+1.5+1+2))-((16*(0.6+0.25))=13.80m										
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.800	0.690	0.230	2.190	116.448	118.638	
	(b) For Lift 1.5m to 3.0m	1			13.800	0.690	0.000	0.000	10.009	10.009	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.800	0.690	0.200	1.904	70.837	72.741	
	(b) For Lift 1.5m to 3.0m	1			13.800	0.690	0.000	0.000	4.960	4.960	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.800	0.690	0.320	3.047	45.042	48.089	



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

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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			13.800	0.690	0.100	0.952		13.015	13.967
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.265		25.307	26.572
	Extra Item no.9.2 (b) :- Lowering & Laying of SWG pipe of 150mm Dia	1			14.050			14.050		4.200	18.250
	Extra Item no.9.2 (c) :- Lowering & Laying of SWG pipe of 300mm Dia									143.700	143.700
	Item no.13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia									13.900	13.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.142			
	Deduction of 150mm dia pipe										
	pipe area	1.00		0.785	13.800	0.170	0.170	0.313			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.952			
								1.265			
								Net Qty = A - B		222.149	228.025
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.016						0.016



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Balaji Nagar Nathnagar-02 - Pipe Meas.

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14th RA BILL MEASUREMENTS PIPE, BALAJI NAGAR NATHNAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
Part-II	SW PIPE - 250 mm Dia										
5/11/16	BN 10.12 to BN 10.12.1										
	CH0.00	584.340	582.890	582.790			1.550	1.575			
	CH15.20	584.395	582.895	582.795			1.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.200	1.190	1.300	20.420		118.638	139.058
	(b) For Lift 1.5m to 3.0m	1			13.200	0.790	0.075	0.782		10.009	10.791
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.200	1.190	0.150	2.356		72.741	75.097
	(b) For Lift 1.5m to 3.0m	1			13.200	0.790	0.000	0.000		4.960	4.960
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.200	1.190	0.050	0.785		48.089	48.875
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.800	0.790	0.100	1.090		13.967	15.057
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.880		26.572	28.452
	Extra Item 9.2 (d) :-Lowering & Laying of SW pipe of 250mm Dia	1			14.300			14.300		0.000	14.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							24.344			
	Deduction										
	pipe area	1		0.785	13.800	0.270	0.270	0.790			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.090			
								1.880			
	Net Qty = A - B							22.464		228.025	250.489
16/11/16	BN 10.12.1 to BN 10.12.2										
	CH15.20	584.395	582.895	582.795			1.600	1.600			
	CH34.30	584.430	582.930	582.830			1.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.100	1.190	1.300	26.454		139.058	165.512
	(b) For Lift 1.5m to 3.0m	1			17.100	0.790	0.100	1.351		10.791	12.142
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.100	1.190	0.150	3.052		75.097	78.150
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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Balaji Nagar Nathnagar-02 - Pipe Meas.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Width of Trench - For Lift 0 to 1.50m- 0.150+0.02+0.02+0.5=0.69m										
	For Lift 1.5 to 3.00m- 0.150+0.02+0.02+0.5+0.4=1.09 m										
	For Lift 3.0 to 4.5m- 0.150+0.5+0.02+0.02+0.4+0.4= 1.49m										
11/7/16	BN 10.12.1 to BN 10.12.1.1										
	CH0.00	584.395	583.795	583.695			0.700	0.700			
	CH4.70	584.395	583.795	583.695			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.690	0.700	1.787	181.628	183.415	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.000	0.690	0.100	0.276	17.846	18.122	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.367	33.261	33.628	
	Extra Item 9.2 (b) :-Lowering & Laying of SW pipe of 150mm Dia	1			4.250			4.250	18.250	22.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.787			
	Deduction										
	pipe area	1		0.785	4.000	0.170	0.170	0.091			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.276			
								0.367			
								Net Qty = A - B	1.420	296.357	297.777
11/7/16	BN 10.12.2 to BN 10.12.2.1										
	CH0.00	584.430	583.830	583.730			0.700	0.700			
	CH4.80	584.430	583.830	583.730			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.800	0.690	0.700	1.835	183.415	185.250	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.100	0.690	0.100	0.283	18.122	18.405	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.376	33.628	34.004	
	Extra Item 9.2 (b) :-Lowering & Laying of SW pipe of 150mm Dia	1			4.350			4.350	22.500	26.850	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.835			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- **087**
Page No. :-

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

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

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Balaji Nagar Nathnagar-02 - Pipe Meas.

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										
	pipe area	1		0.785	4.100	0.170	0.170	0.093			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.283			
								0.376			
								1.459	297.777	299.236	
	Net Qty = A - B										
18/7/16	BN 10.12.3 to BN 10.12.3.1										
	CH0.00	584.080	583.480	583.380			0.700	0.700			
	CH5.70	584.080	583.480	583.380			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	0.690	0.700	2.270	185.250	187.520	
	(b) For Lift 1.5m to 3.0m	1			4.700	0.690	0.000	0.000	12.142	12.142	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	0.690	0.000	0.000	80.164	80.164	
	(b) For Lift 1.5m to 3.0m	1			4.700	0.690	0.000	0.000	4.960	4.960	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	0.690	0.000	0.000	50.564	50.564	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.000	0.690	0.100	0.345	18.405	18.750	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.458	34.004	34.462	
	Extra Item 9.2 (b) :- Lowering & Laying of SW pipe of 150mm Dia	1			5.250			5.250	26.850	32.100	
	Extra Item 9.2 (d) :- Lowering & Laying of SW pipe of 250mm Dia									50.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.270			
	Deduction										
	pipe area	1		0.785	5.000	0.170	0.170	0.113			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.345			
								0.458			
								1.812	299.236	301.048	
	Net Qty = A - B										



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MURANGHEAD 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 Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewerage Treatment Plant at Balaji Nagar, Padegaon, Colwadi, Zalta, Ward

Book No. :- **088**
Page No. :-

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Balaji Nagar Nathnagar-02 Chamber Measurement

11th R A BILL MEASUREMENTS OF CHAMBER
BALAJI NAGAR NATHNAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
GL	H.	EX.L									
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20*0.50*0.5*0.5=2.7m										
	Area for chamber upto 2m=2.7*2.7=7.29m										
	BNR 10.1										
	CH28.80	583.090	581.690	581.440				1.650			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.030	5.894	5.208	11.102	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.150	0.858	0.000	0.858	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	1.145	2.289	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.270	1.545	1.545	3.090	
	Item No. : 11 Transportation of earth Transportation charges							2.640	2.276	4.916	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.442			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.400	1.886			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							2.640			
	Net Qty = A - B							6.802	5.621	12.424	
	BNR 10.2										
	CH42.80	583.490	581.800	581.550				1.940			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.030	5.894	11.102	16.996	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.440	2.518	0.858	3.376	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	2.289	3.434	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.270	1.545	3.090	4.635	
	Item No. : 11 Transportation of earth Transportation charges							3.031	4.916	7.947	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							11.102			
	Deduction										



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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 Nakhshtrawadi (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 risine main

Book No. :- 089
Page No. :-

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Balaji Nagar Nathnagar-02Chember 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							
	Brick work	1		0.785	1.310	1.310	1.690	2.277			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							3.031			
		Net Qty = A - B									
	BNR 10.3							8.071			
	CH53.10	583.750	582.090	581.840			1.910		12.424	20.495	
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.030	5.894	16.996	22.891	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.410	2.346	3.376	5.723	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	3.434	4.578	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.270	1.545	4.635	6.180	
	Item No. : 11 Transportation of earth Transportation charges							2.990	7.947	10.937	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.930			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.660	2.236			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							2.990			
		Net Qty = A - B									
	BNR 10.4							7.940	20.495	28.435	
	CH75.50	584.140	582.790	582.540			1.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.030	5.894	22.891	28.785	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.100	0.572	5.723	6.295	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	4.578	5.723	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.270	1.545	6.180	7.726	
	Item No. : 11 Transportation of earth Transportation charges							2.573	10.937	13.509	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.156			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.350	1.819			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			



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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, Zalta, Padegaon, CIDCO (Airport).

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Balaji Nagar Nathnagar-02Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Total (B)						2.573				
							6.584		28.435	35.019	
	BNR 10.5										
	CH94.20	584.240	582.440	582.190			2.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.030	5.894	28.785	34.679	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.550	3.147	6.295	9.442	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	5.723	6.867	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.270	1.545	7.726	9.271	
	Item No. : 11 Transportation of earth Transportation charges							3.179	13.509	16.688	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						11.731				
	Deduction										
	Brick work	1			0.785	1.310	1.310	1.800	2.425		
	soling								0.000		
	PCC	1			0.785	1.960	1.960	0.250	0.754		
	Murrum bedding								0.000		
	Total (B)						3.179				
							8.553		35.019	43.571	
	BNR 10.6										
	CH100.70	584.280	582.580	582.330			1.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.980	5.608	34.679	40.287	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.450	2.575	9.442	12.018	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145	6.867	8.012	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.320	1.831	9.271	11.102	
	Item No. : 11 Transportation of earth Transportation charges							3.044	16.688	19.732	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						11.159				
	Deduction										
	Brick work	1			0.785	1.310	1.310	1.700	2.290		
	soling								0.000		
	PCC	1			0.785	1.960	1.960	0.250	0.754		
	Murrum bedding								0.000		
	Total (B)						3.044				
							8.115		43.571	51.686	
	BNR 10.7										
	CH102.20	584.290	582.690	582.440			1.850				



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Page No. :-

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Balaji Nagar Nathnagar-02Chamber 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										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.980	5.608		40.287	45.896
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.350	2.003		12.018	14.020
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.200	1.145		8.012	9.156
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.320	1.831		11.102	12.933
	Item No. : 11 Transportation of earth Transportation charges							2.909		19.732	22.642
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.587			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.600	2.155			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							2.909			
								Net Qty = A - B		7.678	51.686
	BNR 10.8										
	CH111.70	584.320	582.720	582.470			1.850				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.200	6.867		9.156	16.023
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.350	2.003		0.000	2.003
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		12.933	14.650
	Item No. : 11 Transportation of earth Transportation charges							2.909		22.642	25.551
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.587			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.600	2.155			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							2.909			
								Net Qty = A - B		7.678	59.364
	BNR 10.9										
	CH124.20	584.447	582.720	582.470			1.977				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.300	7.439		16.023	23.463
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.377	2.157		2.003	4.160



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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 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

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Balaji Nagar Nathnagar-02Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		14.650	16.367
	Item No. : 11 Transportation of earth Transportation charges							3.080		25.551	28.631
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							11.314			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.727	2.327			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murram bedding							0.000			
	Total (B)							3.080			
	Net Qty = A - B							8.233		67.042	75.275
	BNR 10.10										
	CH138.60	584.470	582.870	582.620			1.850				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.300	7.439		23.463	30.902
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.250	1.431		4.160	5.591
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		16.367	18.084
	Item No. : 11 Transportation of earth Transportation charges							2.909		28.631	31.541
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.587			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.600	2.155			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murram bedding							0.000			
	Total (B)							2.909			
	Net Qty = A - B							7.678		75.275	82.952
	BNR 10.11										
	CH150.60	584.330	582.870	582.620			1.710				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	1.300	7.439		30.902	38.342
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.110	0.629		5.591	6.221
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		18.084	19.800
	Item No. : 11 Transportation of earth Transportation charges							2.721		31.541	34.261
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.786			



/s/



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

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

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Balaji Nagar Nathnagar-02Chember Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up to Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Murrum bedding						0.000				
	Total (B)						2.640				
		Net Qty = A - B									
							6.802			103.841	
	Excavation of Chamber - For 0.6m X 0.45m size chamber L- 0.6+0.5+0.3+0.3=1.7m										
	Bredth for chamber = 0.45+0.5+0.3+0.3=1.55m										
	BNR 10.8.1										
	CH5.10	584.400	584.050	583.800			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.080	0.211	57.112	57.323	
	(b) For Lift 1.5m to 3.0m	1			1.700	1.550	0.000	0.000	16.023	16.023	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.200	0.527	40.631	41.158	
	(b) For Lift 1.5m to 3.0m	1			1.700	1.550	0.000	0.000	6.221	6.221	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.320	0.843	23.463	24.306	
	Item No. : 11 Transportation of earth Transportation charges							0.581	39.609	40.189	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						1.581				
	Deduction										
	Brick work	1		0.785	1.100	0.950	0.350	0.287			
	soling							0.000			
	PCC	1		0.785	1.300	1.150	0.250	0.293			
	Murrum bedding							0.000			
	Total (B)						0.581				
		Net Qty = A - B									
							1.000		103.841	104.842	



Signature



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

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Last

Balaji Nagar Nathnagar-02 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=										
	Deduction						5.495				
	Brick work										
	soling	1		0.785	1.200	1.200	1.500	1.696			
	PCC							0.000			
	Murrum bedding	1		0.785	1.600	1.600	0.250	0.502			
	Total (B)							0.000			
								2.198			
	BN 10.12.3										
	CH53.30							3.297	108.139	111.436	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.	584.080	582.980	582.730			1.350				
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	1.150	3.611	65.487	69.098	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	4.000	0.000	0.000	17.593	17.593	
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.150	0.471	42.100	42.571	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				0.785	4.000	0.000	0.000	6.221	6.221	
	(a) For Lift 0 to 1.5m	1									
	Item No. : 11 Transportation of earth Transportation charges				0.785	4.000	0.050	0.157	24.620	24.777	
	Item No. 30 :- Refilling the excavated trenches ...							1.746	44.585	46.331	
	Total Excavation(A)=										
	Deduction							4.239			
	Brick work										
	soling	1		0.785	1.200	1.200	1.100	1.243			
	PCC							0.000			
	Murrum bedding	1		0.785	1.600	1.600	0.250	0.502			
	Total (B)							0.000			
								1.746			
								2.493	111.436	113.929	



Signature



AURANGABAD MUNICIPAL CORPORATION.
(From No.52)

Measurement Book

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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

	Details	Last Measurement
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Balaji Nagar Nathnagar-02CHEMBER

17th R A BILL MEASUREMENTS CHEMBER DETAILS

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 2.0 mtr For per 50 cm	Total Rebate Qty for 50 cm
		No				
		GL	IL	DEPTH		
A	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 etc., complete					
	BALAJI NAGAR NATHNAGAR-02					
1	BNR 10.1	583.090	581.690	1.400	2.000	-0.600
2	BNR 10.2	583.490	581.800	1.690	2.000	-0.310
3	BNR 10.3	583.750	582.090	1.660	2.000	-0.340
4	BNR 10.4	584.140	582.790	1.350	2.000	-0.650
5	BNR 10.5	584.240	582.440	1.800	2.000	-0.200
6	BNR 10.6	584.280	582.580	1.700	2.000	-0.300
7	BNR 10.7	584.290	582.690	1.600	2.000	-0.400
8	BNR 10.8	584.320	582.720	1.600	2.000	-0.400
9	BNR 10.9	584.447	582.720	1.727	2.000	-0.273
10	BNR 10.10	584.470	582.870	1.600	2.000	-0.400
11	BNR 10.11	584.330	582.870	1.460	2.000	-0.540
12	BNR 10.12	584.340	582.890	1.450	2.000	-0.550
13	BNR 10.13	584.320	582.920	1.400	2.000	-0.600
	TOTAL					-5.563
						-11.126
SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
		No				
		GL	IL	DEPTH		
B	Extra Item No. 02 : 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					
	BALAJI NAGAR NATHNAGAR-02					
1	BNR 10.12	584.395	582.895	1.500	1.500	0.000
2	BNR 10.12	584.430	582.930	1.500	1.500	0.000
3	BNR 10.12	584.080	582.980	1.100	1.500	-0.400
	TOTAL					-0.400
						-1.333



Signature
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AURANGABAD MUNICIPAL CORPORATION.
(From No.52)

Measurement Book

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

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

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Balaji Nagar Nathnagar-02BBM Work

**17th RA BILL MEASUREMENTS OF BBM TRENCH
BALAJI NAGAR NATHNAGAR-02**

Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
1	0.6mx0.45m Size 0.23m thickness RECT MH-1 no. Depth=0.6-0.15=0.45m.								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	2	1.060	0.230	0.450	0.219	0.000	0.219	
	(b) Short Wall	2	0.450	0.230	0.450	0.093	0.000	0.093	
						0.313	0.000	0.313	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	2	0.600		0.450	0.540	0.000	0.540	
	(b) Short Wall	2	0.450		0.450	0.405	0.000	0.405	
						0.945	0.000	0.945	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	2	1.060		0.450	0.954	0.000	0.954	
	(b) Short Wall	2	0.910		0.450	0.819	0.000	0.819	
						1.773	0.000	1.773	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	2	0.600	0.000	0.450	0.540	0.000	0.540	
	(b) Short Wall Internal	2	0.450	0.000	0.450	0.405	0.000	0.405	
						0.945	0.000	0.945	
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.								
	PCC	1	1.300	1.150	0.150	0.224	0.000	0.224	
	Manhole Cover								
	Extra Item 9.8 (a) providing & Fixing SFRC manhole cover of Size 0.6mx0.45m					1.000	0.000	1.000	



See end



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Date of Measurement											Last		
1													
<p>Page 2 of 2</p> <p style="text-align: right;">Balaji Nagar Nathnagar-02 Quantity Abstract.</p>													
<p>QUANTITY ABSTRACT</p> <p>BALAJI NAGAR NATHNAGAR-02</p>													
		Extra Item 4			Extra Item 5			Extra Item 9.1			Extra Item 9.2		Extra Item 9.8
	a	b	c	d	b	150mm	250mm	300mm	150mm	250mm	300mm	a	
	0.313	0.945	1.773	0.945	0.224	32.100	50.600	143.700	32.100	50.600	143.700		
	0.313	0.945	1.773	0.945	0.224	32.100	50.600	143.700	32.100	50.600	143.700	1.000	
												1.000	
												1.000	



Secretary

[Signature]