

**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 Veneture)

**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

Manhole Details-Balaji Nagar-03

**9th R A BILL, CHEMBER DETAILS, BALAJI NAGAR-03**

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 For per 30 cm	Total Rebate Qty for 30 cm
		GL	IL	DEPTH		
1	BALAJI NAGAR-03					
A	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					
1	BL2	584.820	583.380	1.440	1.5	-0.060
2	BL3	584.770	583.700	1.070	1.5	-0.430
	Total					-0.490
						-1.63
						-1.63



2

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim AE. 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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	

1

BBM Trench Balaji Nagar-03

**9th RA BILL MEASUREMENTS OF BBM TRENCH**

Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
A	Quantity for chamber								
	BALAJI NAGAR-03								
1	0.6mx0.45m and 0.23m thickness RECT MH-04Nos. Average Depth= $((0.64+0.52+0.62+0.55)/4=0.583$								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	8	1.060	0.230	0.583	1.137		0.000	1.137
	(b) Short Wall	8	0.450	0.230	0.583	0.483		0.000	0.483
						1.620		0.000	1.620
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	8	0.600		0.583	2.798		0.000	2.798
	(b) Short Wall	8	0.450		0.583	2.099		0.000	2.099
						4.897		0.000	4.897
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	8	1.060		0.583	4.944		0.000	4.944
	(b) Short Wall	8	0.910		0.583	4.244		0.000	4.244
						9.188		0.000	9.188
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	8	0.600	0.000	0.583	2.798		0.000	2.798
	(b) Short Wall Internal	8	0.450	0.000	0.583	2.099		0.000	2.099
	(c) Long Wall External	8	1.060	0.000	0.583	4.944		0.000	4.944
	(d) Short Wall External	8	0.910	0.000	0.583	4.244		0.000	4.244
						14.085		0.000	14.085
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.								
	PCC	4	1.260	1.110	0.150	0.839		0.000	0.839



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

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

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Quantity Abstract Balaji Nagar-03

QUANTITY ABSTRACT																	
BALAJI NAGAR-03																	
SR NO	Description	MB/PG	ITEM 1		ITEM 7	ITEM 11	ITEM 30	ITEM 35	Extra Item 2	Extra Item 2.a	Extra Item 4				Extra Item 5	Extra Item No.9.1	Extra Item No.9.2
			0-1.5	1.5-3.0							a	b	c	d			
1	For Pipe		29.485	0.000	2.597	3.931	25.622	0.037									
2	For Manhole		17.629	0.597		6.691	11.535		2.000	-1.633	1.620	4.897	9.188	14.085	0.839	37.600	37.600
<b>Total</b>			47.115	0.597	2.597	10.622	37.156	0.037	2.000	-1.633	1.620	4.897	9.188	14.085	0.839	37.600	37.600

CONTRACTOR  
Pvt.Ltd.  
KHILARI INFRASTRUCTURE PRIVATE LIMITED  
MUMBAI

Authorized Signatory



Project Engineer

PMC



Project Manager

Jr. Engineer

CLIENT

Ex. Engineer

Total up to Date

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**9th R A BILL MEASUREMENTS SW PIPE RAHUL NAGAR**

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							
	SW PIPE - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4 =1.14m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4=1.54m										
	RN0 TO RN1										
	CH0.00	541.673	540.688	540.588			1.085	1.085			
	CH14.40	541.773	540.788	540.688			1.085				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			13.400	0.740	1.085	10.759	0.000	10.759	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.700	0.740	0.100	1.014	0.000	1.014	
	Item No. : 11 Transportation of earth Transportation							1.534	0.000	1.534	
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			13.950			13.950	0.000	13.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>10.759</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.00		0.785	13.700	0.220	0.220	0.52			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.01			
								1.53			
								<b>Net Qty = A - B</b>	9.22	0.00	9.22
	RN1 TO RN2										
	CH14.40	541.773	540.788	540.688			1.085	1.133			
	CH25.10	542.373	541.293	541.193			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.700	0.740	1.133	7.291	10.759	18.050	



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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	RN3 TO RN4										
	CH34.70	542.783	541.803	541.703			1.080				
	CH45.10	543.033	542.183	542.083			0.950	1.015			
	<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			8.400	0.740	1.015	6.309	24.405	30.714	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.000	0.740	0.100	0.666	2.309	2.975	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.008	3.494	4.502	
	<b>Extra Item :-</b> Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			9.500			9.500	32.450	41.950	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>6.309</b>			
	<b>Deduction of 200mm dia pipe area</b>	1.00		0.785	9.000	0.220	0.220	0.34			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.67			
								<b>1.01</b>			
								<b>Net Qty = A - B</b>	<b>5.30</b>	<b>20.91</b>	<b>26.21</b>
	RN4 TO RN5										
	CH45.10	543.033	542.183	542.083			0.950				
	CH56.50	543.868	543.048	542.948			0.920	0.935			
	<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			9.400	0.740	0.935	6.504	30.714	37.218	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.000	0.740	0.100	0.740	2.975	3.715	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.120	4.502	5.622	
	<b>Extra Item :-</b> Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.500			10.500	41.950	52.450	



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

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Rahul Nagar(SWG-200)-Chember Meas.

**9th R A BILL MEASUREMENTS SW CEMBER RAHUL NAGAR**

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>SW - 200mm Dia</b>										
	Excavation of Chamber - For 0.9 Dia. chamber up to Depth of 2.0 mt.- 0.9+0.5+0.3+0.3=2.0m										
	Area for chamber up to Depth of 1.5m= 2 * 2=4m										
	<b>RN1</b>										
	<b>CH14.40</b>	541.773	540.788	540.538			1.235				
	<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			0.785	4.000	1.235	3.878	0.000	3.878	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000	0.000	0.000	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000	0.000	0.000	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.518	0.000	1.518	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.878			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	0.985	1.04			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	<b>Total (B)</b>							1.52			
	<b>Net Qty = A - B</b>							2.36	0.00	2.36	
	<b>RN2</b>										
	<b>CH25.10</b>	542.373	541.293	541.043			1.330				
	<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			0.785	4.000	1.330	4.176	3.878	8.054	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.618	1.518	3.136	



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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						4.176				
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	1.080	1.14			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							1.62			
		<b>Net Qty = A - B</b>						2.56	2.36	4.92	
	<b>RN3</b>										
	<b>CH34.70</b>	542.783	541.803	541.553			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.230	3.862	8.054	11.916	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.513	3.136	4.649	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.862			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	0.980	1.04			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							1.51			
		<b>Net Qty = A - B</b>						2.35	4.92	7.27	
	<b>RN4</b>										
	<b>CH45.10</b>	543.033	542.183	541.933			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.100	3.454	11.916	15.370	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.375	4.649	6.025	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.454			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	0.850	0.90			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			



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

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

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

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

Rahul Nagar(SWG-200)-CHEMBER

**9th R A BILL, CHEMBER DETAILS RAHUL NAGAR**

SR NO	CHEMBER NUMBER	DETAILS			DEPTH	Rebate up to Depth of 1.5 For per 30 cm	Total Rebate Qty for 30
		GL	IL	No			
1	UTTAMNAGAR(BALAJI NAGAR)						
A	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						
1	RN1	541.773	540.788	0.985	1.5	-0.515	
2	RN2	542.423	541.293	1.130	1.5	-0.370	
3	RN3	542.823	541.803	1.020	1.5	-0.480	
4	RN4	543.243	542.183	1.060	1.5	-0.440	
5	RN5	544.183	543.048	1.135	1.5	-0.365	
	Total					-2.170	-7.23





**9th R A BILL MEASUREMENTS SW PIPE SAI VRUNDAVAN COLONY(Chaudhari Thakkar pride)**

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	<b>SW PIPE - 250 mm Dia</b>									
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.79m									
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19m									
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4=1.59m									
	<b>SA TO SB</b>									
	CH0.00	548.865	548.235	548.135			0.730	0.858		
	CH12.70	549.125	548.240	548.140			0.985			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			11.700	0.790	0.658	6.077	0.000	6.077
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			11.700	0.790	0.150	1.386	0.000	1.386
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			11.700	0.790	0.050	0.462	0.000	0.462
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			12.000	0.790	0.100	0.948	0.000	0.948
	Item No. : 11 Transportation of earth Transportation							1.635	0.000	1.635
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			12.500			12.500	0.000	12.500
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							<b>7.926</b>		
	Deduction of 250mm dia pipe									
	pipe area	1.00		0.785	12.000	0.270	0.270	0.69		
	soling							0.00		
	PCC							0.00		
	Murrum bedding							0.95		
								<b>1.63</b>		
	<b>Net Qty = A - B</b>							<b>6.29</b>	<b>0.00</b>	<b>6.29</b>
	<b>SB TO SC</b>									
	CH12.70	549.125	548.240	548.140			0.985	0.959		
	CH23.70	549.105	548.272	548.172			0.933			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			9.000	0.790	0.759	5.396	6.077	11.474

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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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 CDD. Details from Golwadi STP to Nakhtrawadi (Kanchanwadi) STP and Ward No 98 to

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Pipe Lying MB Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250

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			9.000	0.790	0.150	1.067		1.386	2.453	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			9.000	0.790	0.050	0.356		0.462	0.818	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			9.600	0.790	0.100	0.758		0.948	1.706	
	Item No. : 11 Transportation of earth Transportation							1.308		1.635	2.942	
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			10.100			10.100		12.500	22.600	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>6.818</b>				
	Deduction of 250mm dia pipe											
	pipe area	1.00		0.785	9.600	0.270	0.270	0.55				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							0.76				
								1.31				
								<b>Net Qty = A - B</b>		<b>5.51</b>	<b>6.29</b>	<b>11.80</b>
	SC TO SD											
	CH23.70	549.105	548.272	548.172			0.933	1.031				
	CH45.10	549.525	548.495	548.395			1.130					
	Item No. 1 :- Excavation for foundation/pipe trenches in											
	(a) For Lift 0 to 1.5m	1			19.400	0.790	0.831	12.744		11.474	24.217	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			19.400	0.790	0.150	2.299		2.453	4.752	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			19.400	0.790	0.050	0.766		0.818	1.584	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.000	0.790	0.100	1.580		1.706	3.286	
	Item No. : 11 Transportation of earth Transportation							2.725		2.942	5.667	
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			20.500			20.500		22.600	43.100	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>15.809</b>				
	Deduction of 250mm dia pipe											



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP 150 line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for ... agabad City.

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M/s. K. Khilari Infrastructure Pvt. Ltd. & GECPL (Joint Venture)

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Pipe Lying MB Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250

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	20.000	0.270	0.270	1.14			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.58			
								2.72			
		Net Qty = A - B						13.08	11.80	24.89	
	SD TO SE										
	CH45.10	549.525	548.495	548.395			1.130				
	CH64.60	549.735	548.835	548.735			1.000	1.065			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.500	0.790	0.865	11.959	24.217	36.176	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.500	0.790	0.150	2.074	4.752	6.826	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			17.500	0.790	0.050	0.691	1.584	2.275	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.100	0.790	0.100	1.430	3.286	4.716	
	Item No. : 11 Transportation of earth Transportation charges including loading &							2.466	5.667	8.133	
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			18.600			18.600	43.100	61.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.724			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	18.100	0.270	0.270	1.04			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.43			
								2.47			
		Net Qty = A - B						12.26	24.89	37.14	
	Item No :-35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge			0.038				0.04		0.04	



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

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Manhole MB Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250

**9th R A BILL MEASUREMENTS SW CEMBER SAI VRUNDAVAN COLONY(Chaudhari Thakkar pride)**

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW - 250mm Dia										
	Excavation of Chamber - For 0.9 Dia. - 0.9+0.5+0.3+0.3=2.0m For Area = 2 * 2=4m										
	SB										
	CH12.70	549.125	548.240	547.990			1.135				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			0.785	4.000	0.935	2.936	0.000	2.936	
	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	0.150	0.471	0.000	0.471	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157	0.000	0.157	
	Item No. : 11 Transportation of earth Transportation charges including loading & Item No. 30 :- Refilling the excavated trenches ...							1.412	0.000	1.412	
	<b>Total Excavation(A)=</b>							<b>3.564</b>			
	Deduction of 250mm dia pipe										
	Brick work	1.00			0.785	1.16	1.16	0.885	0.93		
	soling								0.00		
	PCC	1.00			0.785	1.56	1.56	0.25	0.48		
	Murrum bedding								0.00		
	<b>Total (B)</b>							<b>1.41</b>			
	<b>Net Qty = A - B</b>							<b>2.15</b>	<b>0.00</b>	<b>2.15</b>	
	SC										
	CH23.70	549.105	548.272	548.022			1.083				
	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	0.883	2.773	2.936	5.709	
	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	0.150	0.471	0.471	0.942	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157	0.157	0.314	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.357	1.412	2.770	



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

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Manhole MB Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250

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. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.401</b>				
	Deduction of 250mm dia pipe										
	Brick work	1.00		0.785	1.16	1.16	0.833	0.88			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>1.36</b>			
		<b>Net Qty = A - B</b>						<b>2.04</b>	<b>2.15</b>	<b>4.19</b>	
	SD										
	CH45.10	549.525	548.495	548.245			1.280				
	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	1.080	3.391	5.709	9.100	
	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	0.150	0.471	0.942	1.413	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157	0.314	0.471	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.566	2.770	4.335	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>4.019</b>			
	Deduction of 250mm dia pipe										
	Brick work	1.00		0.785	1.16	1.16	1.030	1.09			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>1.57</b>			
		<b>Net Qty = A - B</b>						<b>2.45</b>	<b>4.19</b>	<b>6.65</b>	
	SE										
	CH64.60	549.735	548.835	548.585			1.150				
	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	0.950	2.983	9.100	12.083	
	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	0.150	0.471	1.413	1.884	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



2

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

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

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

Date of 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

Manhole MB Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250

Page 3

Date	Particulars of work	DETAILS						Content of arrears	Last measurement	Total Upto Date
		GL	No	EX.L	L	B	D			
	(a) For Lift 0 to 1.5m	1		0.785	4.000	0.050	0.157	0.471	0.628	
	Item No. : 11 Transportation of earth Transportation charges including loading & Item No. 30 :- Refilling the excavated trenches ..						1.428	4.335	5.764	
	Total Excavation(A)=						3.611			
	Deduction of 250mm dia pipe						0.95			
	Brick work	1.00		0.785	1.16	0.900	0.00			
	soling						0.48			
	PCC	1.00		0.785	1.56	0.25	0.00			
	Murrum bedding						1.43			
	Total (B)						2.18	6.65	8.83	
				Net Qty = A - B						



**Name of work:** Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim 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 Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DE 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

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

Page 1  
Manhole Details Sai vrundavan colony(Chowdhari Thakkar Pride) SW Pipe-250  
9th R.A BILL. CHEMBER DETAILS SAI VRUNDAVAN COLONY(Chauthari Thakkar pride)

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 For per 30 cm	Total Rebate Qty for 30 cm
		GL	IL	DEPTH		
<b>SAI VRUNDAVAN COLONY(Chauthari Thakkar pride)</b>						
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						
1		549.125	548.240	0.885	1.5	-0.615
2		549.105	548.272	0.833	1.5	-0.667
3		549.525	548.495	1.030	1.5	-0.470
4		549.735	548.835	0.900	1.5	-0.600
Total						-2.352
						-7.84



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

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

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

Date of Measurement	
---------------------	--

Quantity Abstract Sai vrundavan colony (Chowdhari Thakkar Pride) SW Pipe-250

QUANTITY ABSTRACT													
SAI VRUNDAVAN COLONY (Chaudhari Thakkar pride)													
SR NO	Description	MB/PG	ITEM 1	ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 30	ITEM 35	Extra Item 2	Extra Item 2.a	Extra Item 9.1	Extra Item 9.2
			0-1.5	0-1.5	0-1.5					0-1.5 m	Rebate	d	d
1	For Pipe		36.176	6.826	2.275	4.716	8.133	37.144	0.038			61.70	61.70
2	For Manhole		12.083	1.884	0.628		5.764	8.831		4.000	-7.840		
	<b>Total</b>		48.259	8.710	2.903	4.716	13.896	45.975	0.038	4.000	-7.840	61.70	61.70

CONTRACTOR



PMC



CLIENT



Mr. Engineer

*[Signature]*  
Mr. Engineer

Dy. Engineer

*[Signature]*  
Dy. Engineer

Ex. Engineer

*[Signature]*  
Ex. Engineer

Total up to Date	
	10

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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Bilal Masjid Vishnu Nagar Meas. SW Pipe

**9th R A BILL MEASUREMENTS SW PIPE BILALMASIID VISHNU NAGAR**

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.790										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4= 1.190m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0. 4=1.590m										
	BV 03 Old to BV 04										
	CH0.00	581.770	581.070	580.970			0.800	0.880			
	CH6.40	581.950	581.090	580.990			0.960				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	0.790	0.680	2.525	0.000	2.525	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	0.790	0.200	0.743	0.000	0.743	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.000	0.790	0.100	0.395	0.000	0.395	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.681	0.000	0.681	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			5.500			5.500	0.000	5.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.267			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	5.000	0.270	0.270	0.29			
	soiling							0.00			
	POC							0.00			
	Murrum bedding							0.40			
								0.68			
								Net Qty = A - B			
	BV 04 to BV 05							2.59	0.00	2.59	
	CH6.40	581.950	581.090	580.990			0.960	0.865			
	CH21.20	581.780	581.110	581.010			0.770				



*2*



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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Bilalmasjid Vishnu Nagar Meas. SW 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								
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			6.300			6.300		19.400	25.700	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>3.225</b>				
	<b>Deduction of 250mm dia pipe</b>											
	pipe area	1.00		0.785	5.800	0.270	0.270	0.33				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							0.46				
								<b>0.79</b>				
		<b>Net Qty = A - B</b>										
	<b>BV 06 to BV 07</b>							<b>2.43</b>		<b>9.51</b>	<b>11.94</b>	
	CH28.40	581.820	581.120	581.020			0.800					
	CH39.90	582.210	581.210	581.110			1.100	0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			9.500	0.790	0.740	5.554		11.510	17.064	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			9.500	0.790	0.210	1.576		2.986	4.562	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.100	0.790	0.100	0.798		1.912	2.710	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.376		3.297	4.673	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			10.600			10.600		25.700	36.300	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>7.130</b>				
	<b>Deduction of 250mm dia pipe</b>											
	pipe area	1.00		0.785	10.100	0.270	0.270	0.58				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							0.80				
								<b>1.38</b>				
		<b>Net Qty = A - B</b>										
	<b>BV 07 to BV 08</b>							<b>5.75</b>		<b>11.94</b>	<b>17.70</b>	
	CH39.90	582.210	581.210	581.110			1.100					



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

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Bilalmasjid Vishnu Nagar Meas. SW 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							
	CH50.60	582.550	581.230	581.130			1.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.700	0.790	1.050	7.217	17.064	24.281	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.700	0.790	0.210	1.443	4.562	6.006	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.300	0.790	0.100	0.735	2.710	3.444	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.267	4.673	5.939	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			9.800			9.800	36.300	46.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>8.660</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	9.300	0.270	0.270	0.53			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.73			
								1.27			
								<b>7.39</b>	<b>17.70</b>	<b>25.09</b>	
	<b>Net Qty = A - B</b>										
	BV 08 to BV 09										
	CH50.60	582.550	581.230	581.130			1.420	1.510			
	CH57.90	582.860	581.360	581.260			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			5.300	1.190	1.290	8.136	24.281	32.417	
	(b) For Lift 1.5m to 3.0m	1			5.300	0.790	0.010	0.042	0.000	0.042	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.300	1.190	0.210	1.324	6.006	7.330	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.900	0.790	0.100	0.466	3.444	3.914	



g



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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Bilalmasjid Vishnu Nagar Meas. SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upt Date Quantity	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.804		5.939	6.743	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			6.400			6.400		46.100	52.500	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>9.502</b>				
	Deduction of 250mm dia pipe											
	pipe area	1.00		0.785	5.900	0.270	0.270	0.34				
	soling							0.00				
	PCC							0.00				
	Murum bedding							0.47				
								<b>0.80</b>				
		Net Qty = A - B										
	<b>BV 09 to BV 10</b>							<b>8.70</b>		<b>25.09</b>	<b>33.79</b>	
	CH57.90	582.860	581.360	581.260			1.600	1.410				
	CH70.70	582.630	581.510	581.410			1.220					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			10.800	1.190	1.200	15.422		32.417	47.839	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			10.800	1.190	0.210	2.699		7.330	10.029	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.400	0.790	0.100	0.901		3.911	4.811	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.553		6.743	8.296	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			11.900			11.900		52.500	64.400	
	Item No. 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation=</b>							<b>18.121</b>				
	Deduction of 250mm dia pipe											
	pipe area	1.00		0.785	11.400	0.270	0.270	0.65				
	soling							0.00				
	PCC							0.00				
	Murum bedding							0.90				
								<b>1.55</b>				



2



# 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. :- 153  
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	units meters	Page	Quan-	

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Bilalmasjid Vishnu Nagar Meas. SW 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							
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	1.190	0.000	0.000		0.743	0.743
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.200	0.790	0.100	0.885		5.720	6.604
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.526		9.863	11.389
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			11.700			11.700		76.400	88.100
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>13.245</b>			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	11.200	0.270	0.270	0.64			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.88			
								<b>1.53</b>			
								<b>Net Qty = A - B</b>		<b>11.72</b>	<b>64.35</b>
										<b>76.07</b>	



2

**9th R A BILL MEASUREMENTS OF CHEMBERS BILALMASJID VISHNU NAGAR**

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m									
	For Area of chamber up to 1.5m=2 X 2=4m									
	BV 04									
	CH6.40	581.950	581.090	580.840			1.110			
	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	0.910	2.857	0.000	2.857
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628	0.000	0.628
	Item No. : 11 Transportation of earth Transportation charges							1.386	0.000	1.386
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						3.485			
	Deduction									
	Brick work	1		0.785	1.160	1.160	0.860	0.908		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)						1.386			
							Net Qty = A - B	2.099	0.000	2.099
	BV 05									
	CH21.20	581.780	581.110	580.860			0.920			
	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	0.710	2.229	2.857	5.087
	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	0.210	0.659	0.000	0.659
	Item No. : 11 Transportation of earth Transportation charges							1.185	1.386	2.571
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						2.889			
	Deduction									
	Brick work	1		0.785	1.160	1.160	0.670	0.708		



2

**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. :-

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Bilalmasjid Vishnu NagarChember

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B	D		Page	Quantity		
	soling							0.000				
	PCC	1		0.785	1.560	1.560	0.250	0.478				
	Murum bedding							0.000				
	<b>Total (B)</b>							<b>1.185</b>				
		<b>Net Qty = A - B</b>										
	<b>BV 06</b>							<b>1.703</b>		2.099	3.803	
	<b>CH28.40</b>	581.820	581.120	580.870			0.950					
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.740	2.324		5.087	7.410	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.210	0.659		0.659	1.319	
	<b>Item No. : 11</b> Transportation of earth Transportation charges							1.217		2.571	3.788	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...											
	<b>Total Excavation(A)=</b>							<b>2.983</b>				
	<b>Deduction</b>											
	Brick work	1		0.785	1.160	1.160	0.700	0.739				
	soling							0.000				
	PCC	1		0.785	1.560	1.560	0.250	0.478				
	Murum bedding							0.000				
	<b>Total (B)</b>							<b>1.217</b>				
		<b>Net Qty = A - B</b>										
	<b>BV 07</b>							<b>1.766</b>		3.803	5.569	
	<b>CH39.90</b>	582.210	581.210	580.960			1.250					
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.040	3.266		7.410	10.676	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.210	0.659		1.319	1.978	
	<b>Item No. : 11</b> Transportation of earth Transportation charges							1.534		3.788	5.322	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...											
	<b>Total Excavation(A)=</b>							<b>3.925</b>				
	<b>Deduction</b>											
	Brick work	1		0.785	1.160	1.160	1.000	1.056				
	soling							0.000				
	PCC	1		0.785	1.560	1.560	0.250	0.478				
	Murum bedding							0.000				
	<b>Total (B)</b>							<b>1.534</b>				



2

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		No		L	B	D		Page	Quantity	
		GL	IL							
		Net Qty = A - B					2.391		5.569	7.960
	BV 08									
	CH50.60	582.550	581.230	580.980			1.570			
	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	1.290	4.051	10.676	14.727
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.070	0.220	0.000	0.220
	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	0.210	0.659	1.978	2.638
	Item No. : 11 Transportation of earth Transportation charges							1.872	5.322	7.194
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							4.930		
	Deduction									
	Brick work	1		0.785	1.160	1.160	1.320	1.394		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)							1.872		
		Net Qty = A - B							7.960	11.018
	BV 09									
	CH57.90	582.860	581.360	581.110			1.750			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.290	4.051	14.727	18.777
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.250	0.785	0.220	1.005
	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	0.210	0.659	2.638	3.297
	Item No. : 11 Transportation of earth Transportation charges							2.062	7.194	9.256
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							5.495		
	Deduction									
	Brick work	1		0.785	1.160	1.160	1.500	1.584		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)							2.062		
		Net Qty = A - B							11.018	14.451
	BV 10									



2

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. :- 154

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH70.70	582.630	581.510	581.260			1.370				
	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	1.160	3.642	18.777	22.420	
	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	0.210	0.659	3.297	3.956	
	Item No. : 11 Transportation of earth Transportation charges							1.661	9.256	10.917	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.302			
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.120	1.183			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.661			
					Net Qty = A - B			2.641	14.451	17.092	
	BV 11										
	CH83.60	582.740	581.660	581.410			1.330				
	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	1.120	3.517	22.420	25.936	
	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	0.210	0.659	3.956	4.616	
	Item No. : 11 Transportation of earth Transportation charges							1.618	10.917	12.535	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.176			
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.080	1.141			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.618			
					Net Qty = A - B			2.558	17.092	19.650	
	BV 12										
	CH96.28	582.700	581.880	581.630			1.070				



*[Handwritten signature]*

**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. :- **155**  
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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		Length	Breadth	Depth	Units	Years	Page	Quan-	

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Bilalmasjid Vishnu NagarChember

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			0.785	4.000	0.860	2.700		25.936	28.637	
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.000	0.000		1.005	1.005	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.210	0.659		4.616	5.275	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000		0.628	0.628	
	<b>Item No. : 11</b> Transportation of earth Transportation charges							1.344		12.535	13.879	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...											
	<b>Total Excavation(A)=</b>							<b>3.360</b>				
	<b>Deduction</b>											
	Brick work	1		0.785	1.160	1.160	0.820	0.866				
	soling							0.000				
	PCC	1		0.785	1.560	1.560	0.250	0.478				
	Murrum bedding							0.000				
	<b>Total (B)</b>							<b>1.344</b>				
	<b>Net Qty = A - B</b>										<b>19.650</b>	<b>21.666</b>



2



**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. :- 153  
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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	

Bilalmasjid Vishnu NagarCHEMBER

**2th RA BILL MEASUREMENTS CHEMBER DETAILS BILALMASJID VISHNU NAGAR**

Page 1 of 1

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
		GL	IL	DEPTH		
A	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					
1	BILALMASJID VISHNU NAGAR					
1	BV 04	581.950	581.090	0.860	1.500	-0.640
2	BV 05	581.780	581.110	0.670	1.500	-0.830
3	BV 06	581.820	581.120	0.700	1.500	-0.800
4	BV 07	582.210	581.210	1.000	1.500	-0.500
5	BV 08	582.550	581.230	1.320	1.500	-0.180
6	BV 09	582.860	581.360	1.500	1.500	0.000
7	BV 10	582.630	581.510	1.120	1.500	-0.380
8	BV 11	582.740	581.660	1.080	1.500	-0.420
9	BV 12	582.700	581.880	0.820	1.500	-0.680
	<b>TOTAL</b>					<b>-14.767</b>
						<b>-4.430</b>



Bilal Masjid Vishnu Nagar Quantity Abstract

QUANTITY ABSTRACT																
BILAL MASJID VISHNU NAGAR																
SR NO	Discription	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 30	Extra Item 2		Extra Item 2.a	Extra Item No. 9.1		Extra Item No. 9.2	
			0-1.5	1.5-3.0						0-1.5	0-1.5 m		For RR 3450	d		d
1	For Pipe		71.276	0.042	15.402	0.743	6.604	11.389	76.074					88.1		88.10
2	For Manhole		28.637	1.005	5.275	0.628	13.879	21.666		7.000	2.000	-14.767				
	<b>Total</b>		<b>99.913</b>	<b>1.047</b>	<b>20.677</b>	<b>1.371</b>	<b>6.604</b>	<b>25.267</b>	<b>97.740</b>	<b>7.000</b>	<b>2.000</b>	<b>-14.767</b>	<b>88.10</b>	<b>88.10</b>		<b>88.10</b>

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CONTRACTOR



PMC



CLIENT

*[Signature]*  
Ex. Engineer

Jr. Engineer

*[Signature]*  
Dy. Engineer

Total up to Date

10

**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. :-  
Page No. :- 158

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

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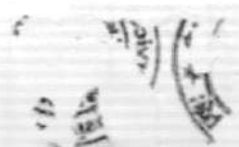
Baudha Nagar & Uttam Nagar SW Pipe Measurement Baudha Nagar

**9th R A BILL MEASUREMENTS SW PIPE BAUDHA NAGAR**

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>SW PIPE - 200 mm Dia</b>										
	<b>Width of Trench -</b> For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4= 1.140m										
	For Lift 3.0 to 4.5m- 0.200+0.02+0.02+0.5+0.4+0. 4=1.540m										
	<b>BOG1 TO BOG2 (old)</b>										
	<b>CH0.00</b>	584.190	583.370	583.270			0.920	0.910			
	<b>CH5.75</b>	584.250	583.450	583.350			0.900				
	<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			4.050	0.740	0.910	2.727	0.000	2.727	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.350	0.740	0.100	0.322	0.000	0.322	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.487	0.000	0.487	
	<b>Extra Item No.9.2 (c):-</b> Lowering,Laying & jointing of SW pipe of 200mm Dia	1			4.850			4.850	0.000	4.850	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							2.727			
	<b>Deduction</b>										
	pipe area	1.00		0.785	4.350	0.220	0.220	0.165			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.322			
								0.487			
								2.240	0.000	2.240	
					Net Qty = A - B						



2



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 from Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Baudha Nagar & Uttam Nagar SW Pipe Measurement Line

**9th R A BILL MEASUREMENTS SW PIPE BAUDHA NAGAR & UTTAM NAGAR**

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.79m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19m										
	For Lift 3.0 to 4.5m- 0.250+0.02+0.02+0.5+0.4+0.4=1.59m										
	BON 0 TO BON 1										
	CH0.00	579.870	578.800	578.700			1.170	1.100			
	CH7.50	579.870	578.940	578.840			1.030				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.500	0.790	0.850	4.365	2.727	7.092	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.800	0.790	0.100	0.537	0.322	0.859	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.926	0.487	1.414	
	Extra Item No.9.2 :- Lowering & Laying of SW pipe of 250mm Dia	1			7.050			7.050	0.000	7.050	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>5.649</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	6.800	0.270	0.270	0.39			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.54			
								<b>0.93</b>			
								<b>4.72</b>	<b>2.240</b>	<b>6.962</b>	
	BON 1 TO BON 2										
	CH7.50	579.870	578.940	578.840			1.030	1.100			
	CH20.10	580.170	579.100	579.000			1.170				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	0.790	0.850	7.118	7.092	14.210	



2

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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Baudha Nagar& Uttam Nagar SW PipeMeasurement Line

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upt Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	0.790	0.250	2.094		1.284	3.37
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.200	0.790	0.100	0.885		0.859	1.74
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.526		1.414	2.93
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			11.700			11.700		7.050	18.75
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>9.211</b>			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	11.200	0.270	0.270	0.64			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.88			
								1.53			
								<b>7.69</b>		<b>6.962</b>	<b>14.648</b>
	<b>BON 2 TO BON 3</b>										
	CH20.10	580.170	579.100	579.000			1.170	1.145			
	CH30.10	580.320	579.300	579.200			1.120				
	<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			8.000	0.790	0.895	5.656		14.210	19.866
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.000	0.790	0.250	1.580		3.377	4.957
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.600	0.790	0.100	0.679		1.744	2.423
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.172		2.939	4.111
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			9.100			9.100		18.750	27.850
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>7.236</b>			



*J.*

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>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	8.600	0.270	0.270	0.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.68			
								1.17			
		<b>Net Qty = A - B</b>							6.06	14.648	20.713
	<b>BON 3 TO BON 4</b>										
	CH30.10	580.320	579.300	579.200			1.120	1.120			
	CH38.40	580.670	579.650	579.550			1.120				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.300	0.790	0.870	4.330	19.866	24.196	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.300	0.790	0.250	1.244	4.957	6.202	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.790	0.100	0.545	2.423	2.968	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.940	4.111	5.051	
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			7.400			7.400	27.850	35.250	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							5.574			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	6.900	0.270	0.270	0.39			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.55			
								0.94			
		<b>Net Qty = A - B</b>							4.63	20.713	25.347
	<b>BON 4 TO BON 5</b>										
	CH38.40	580.670	579.650	579.550			1.120	1.135			
	CH46.80	580.960	579.910	579.810			1.150				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.885	4.475	24.196	28.671	



*[Handwritten signature]*

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. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.250	1.264		6.202	7.466
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.000	0.790	0.100	0.553		2.968	3.521
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.954		5.051	6.004
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			7.500			7.500		35.250	42.750
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							5.739			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	7.000	0.270	0.270	0.40			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.55			
								0.95			
								4.78		25.347	30.132
	<b>Net Qty = A - B</b>										
	<b>BON 5 TO BON 6</b>										
	CH46.80	580.960	579.910	579.810			1.150	1.110			
	CH56.30	581.140	580.170	580.070			1.070				
	<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			7.500	0.790	0.860	5.096		28.671	33.766
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.500	0.790	0.250	1.481		7.466	8.947
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.100	0.790	0.100	0.640		3.521	4.161
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.103		6.004	7.107
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			8.600			8.600		42.750	51.357
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							6.577			



2

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

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Baudha Nagar & Uttam Nagar SW Pipe Measurement Line

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>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	8.100	0.270	0.270	0.46			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.64			
								1.10			
		Net Qty = A - B							5.47	30.132	35.605
	<b>BON 6 TO BON 7</b>										
	CH56.30	581.140	580.170	580.070			1.070	1.050			
	CH63.80	581.380	580.450	580.350			1.030				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.790	0.800	3.476	33.766	37.242	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.790	0.250	1.086	8.947	10.033	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.100	0.790	0.100	0.482	4.161	4.643	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.831	7.108	7.939	
	<b>Extra Item No.9.2 :-</b> Lowering & Laying of SW pipe of 250mm Dia	1			6.600			6.600	51.350	57.950	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							4.562			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	6.100	0.270	0.270	0.35			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.48			
								0.83			
		Net Qty = A - B							3.73	35.605	39.337
	<b>BON 7 TO BON 8</b>										
	CH63.80	581.380	580.450	580.350			1.030	1.045			
	CH73.80	581.760	580.800	580.700			1.060				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.000	0.790	0.795	5.024	37.242	42.267	



*[Handwritten signature]*