



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 094
Page No. :-

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

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.852		2.775	6.627
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.589			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.300	3.10			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	Total (B)							3.85			
								Net Qty = A - B		4.493	11.23
	SHN.4										
	CH61.10	566.784	564.784	564.534				2.250			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.250	5.191		9.551	14.742
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.500	2.076		0.415	2.492
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		2.907	3.945
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.250	1.038		4.983	6.021
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.448		6.627	10.075
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.343			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.000	2.69			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	Total (B)							3.45			
								Net Qty = A - B		11.229	17.12
	SHN.5										
	CH82.30	566.664	565.264	565.014				1.650			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.250	5.191		14.742	19.933
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.150	0.623		2.492	3.114
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		3.945	4.983



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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.

Book No. :- **095**
Page No. :-

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

Shidharth nagar, Chamber meas

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate						2.640	10.075	12.715		
	Item No. 30 :- Refilling the excavated trenches ...						6.852				
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.400	1.89			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	Total (B)						2.64				
							4.21	17.125	21.34		
	SHN.6										
	CH101.00	566.534	565.334	565.084			1.450				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.200	4.983	19.933	24.916	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	4.983	6.021	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate						2.370	12.715	15.086		
	Item No. 30 :- Refilling the excavated trenches ...						6.021				
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.200	1.62			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	Total (B)						2.37				
							3.65	21.337	24.99		
	SHN.7										
	CH123.00	566.554	565.444	565.194			1.360				
	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	5.290	0.600	2.492	0.000	2.492	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.510	2.118	24.916	27.034	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	6.021	7.060	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-
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Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

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Shidharth nagar Chamber meas

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.249		15.086	17.335
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.648			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.110	1.50			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)							2.25			
								Net Qty = A - B			
	SHN.8							3.40		24.988	28.39
	CH150.00	566.864	565.564	565.314				1.550			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.500	2.076		2.492	4.568
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.750	3.114		27.034	30.148
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.050	0.208		3.114	3.322
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		7.060	8.098
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.505		17.335	19.840
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.437			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.300	1.75			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)							2.51			
								Net Qty = A - B			
	SHN.9							3.93		28.386	32.32
	CH172.00	566.964	565.664	565.414				1.550			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.100	4.568		4.568	9.136
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.050	0.208		0.000	0.208



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

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Page No. :-

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

Shidharth nagar Chamber meas

Date	Particulars of work	DETAILS						Content of area	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			0.785	5.290	0.150	0.623		30.148	30.771
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		8.098	9.136
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.505		19.840	22.345
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.437			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.300	1.75			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.51			
	Net Qty = A - B							3.93		32.317	36.25
	SHN.10										
	CH182.00	567.124	565.724	565.474			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.900	3.737		9.136	12.873
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.350	1.453		30.771	32.225
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.150	0.623		3.322	3.945
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		9.136	10.174
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.640		22.345	24.985
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.852			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.400	1.89			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.64			
	Net Qty = A - B							4.21		36.249	40.46
	SHN.11										
	CH192.00	567.384	565.784	565.534			1.850				



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(From No.52)

Measurement Book

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

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.852		34.791	38.643	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							10.589				
	Deduction											
	Brick work	1.00		0.785	1.31	1.31	2.300	3.10				
	soling							0.00				
	PCC	1.00		0.785	1.96	1.96	0.25	0.75				
	Murrum bedding							0.00				
	Total (B)							3.85				
								Net Qty = A - B		6.74	57.024	63.76
	SHN.15											
	CH248.00	568.724	566.424	566.174			2.550					
	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	5.290	1.250	5.191		33.636	38.827	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623		34.716	35.339	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	1.050	4.360		10.797	15.157	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415		11.835	12.250	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.852		38.643	42.495	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							10.589				
	Deduction											
	Brick work	1.00		0.785	1.31	1.31	2.300	3.10				
	soling							0.00				
	PCC	1.00		0.785	1.96	1.96	0.25	0.75				
	Murrum bedding							0.00				
	Total (B)							3.85				
								Net Qty = A - B		6.74	63.761	70.50
	SHN.3.1											
	CH24.00	566.714	564.814	564.564			2.150					
	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	5.290	1.100	4.568		38.827	43.395	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.650	2.699		5.398	8.098	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :-

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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.

APPROVED BY: *[Signature]* & CEODI (Joint Measure)

Date	Particulars of work	DETAILS						Content of area	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			0.785	5.290	0.150	0.623		35.339	35.962
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		12.250	13.288
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.313		42.495	45.809
	Item No. 30 :- Refilling the excavated trenches ...							8.928			
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.900	2.56			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							3.31			
					Net Qty = A - B			5.61		70.498	76.11
	SHN.3.2										
	CH30.00	566.844	565.144	564.894			1.950				
	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	5.290	1.100	4.568		43.395	47.963
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.450	1.869		8.098	9.966
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623		35.962	36.585
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		13.288	14.327
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.044		45.809	48.853
	Item No. 30 :- Refilling the excavated trenches ...							8.098			
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.700	2.29			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							3.04			
					Net Qty = A - B			5.05		76.113	81.17
	SHN.3.3										
	CH36.00	566.574	565.174	564.924			1.650				



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Name of Contractor :-

Date	Particulars of work	Shalithi waga, Chaurha mura						Content of area	Last measurement		Total Upto Date Quantity
		DETAILS			L	B	D		Page	Quantity	
		GL	No II	EXI							
	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	5.290	1.100	4.568	47.263	52.541	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.150	0.623	9.966	10.589	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623	36.585	37.208	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	14.327	15.365	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.640	48.853	51.493	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.852			
	Deduction										
	Brick work	1.00			0.785	1.31	1.31	1.400	1.89		
	soling							0.00			
	IXV	1.00			0.785	1.96	1.96	0.25	0.75		
	Murrum bedding							0.00			
	Total (B)							2.64			
	SHN.3.4										
	CH43.30										
	Net Qty = A - B							4.21	81.166	85.38	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.	566.604	566.204	564.954				1.650			
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	1.100	4.568	52.531	57.099	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	5.290	0.150	0.623	10.589	11.212	
	(a) For Lift 0 to 1.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				0.785	5.290	0.150	0.623	37.208	37.831	
	(a) For Lift 0 to 1.5m	1									
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate				0.785	5.290	0.250	1.038	15.365	16.403	
	Item No. 30 :- Refilling the excavated trenches ...							2.640	51.493	54.133	
	Total Excavation(A)=										
	Deduction							6.852			
	Brick work										
	soling	1.00			0.785	1.31	1.31	1.400	1.89		
								0.00			



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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. :-

Page No. :-

104

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

12 of 17

Shidharth nagar Chamber meas

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Total Excavation(A)=							4.776			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	0.900	1.21			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							1.97			
		Net Qty = A - B									
	SHN.6.3							2.81	92.680	95.49	
	CH43.00	566.604	565.504	565.254			1.350				
	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	5.290	0.950	3.945	63.743	67.688	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623	39.076	39.699	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	18.479	19.517	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.236	58.200	60.436	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.606			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.100	1.48			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.24			
		Net Qty = A - B									
	SHN.6.4							3.37	95.489	98.86	
	CH57.00	566.664	565.564	565.314			1.350				
	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	5.290	0.950	3.945	67.688	71.633	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623	39.699	40.322	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	19.517	20.556	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 105

Page No. :-

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, 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.

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.236	60.436	62.672	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.606			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.100	1.48			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)							2.24			
		Net Qty = A - B							3.37	98.860	102.23
	SHN.6.5										
	CH64.00	566.594	565.594	565.344			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.850	3.530	71.633	75.163	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623	40.322	40.945	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038	20.556	21.594	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.101	62.672	64.773	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.191			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.000	1.35			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)							2.10			
		Net Qty = A - B							3.09	102.230	105.32
	SHN.6.6										
	CH75.00	566.854	565.654	565.404			1.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.050	4.360	75.163	79.523	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623	40.945	41.568	



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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. :- 176
Page No. :-

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

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		21.594	22.632
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.370		64.773	67.143
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.021			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.200	1.62			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.37			
								3.65		105.320	108.97
	SHN.6.7										
	CH93.00	567.044	565.744	565.494			1.550				
	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	5.290	1.100	4.568		79.523	84.091
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.050	0.208		11.212	11.420
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.150	0.623		41.568	42.191
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.250	1.038		22.632	23.670
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.505		67.143	69.648
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.437			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.300	1.75			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.51			
								3.93		108.971	112.90
	SHN.10.1										
	CH12.00	567.224	566.024	565.774			1.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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 CIDCO (Airport).

Book No. :-
Page No. :- **107**

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.900	3.737		84.091	87.829
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.450	1.869		42.191	44.060
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415		23.670	24.085
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.370		69.648	72.019
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.021			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.200	1.62			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.37			
								Net Qty = A - B		112.902	116.55
	SHN.10.2										
	CH23.60	567.184	566.084	565.834			1.350				
	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	5.290	0.900	3.737		87.829	91.566
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.350	1.453		44.060	45.513
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415		24.085	24.501
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.236		72.019	74.255
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.606			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.100	1.48			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.24			
								Net Qty = A - B		116.553	119.92
	SHN.10.3										
	CH34.90	567.544	566.144	565.894			1.650				



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 109

Page No. :-

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, 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 B&C/HDSSMT/2014/184 Date 01.07.2014

17 of 17 Shidharth nagar, Chamber meas

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding							0.00			
	Total (B)							2.24			
		Net Qty = A - B						3.37		124.135	127.51
	SHN.10.5										
	CH62.90	567.794	566.594	566.344				1.450			
	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	5.290	0.800	3.322	98.210	101.532	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.000	0.000	11.420	11.420	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.550	2.284	49.873	52.157	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.000	0.000	15.780	15.780	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415	25.331	25.746	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.000	0.000	6.021	6.021	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.370	79.130	81.501	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.021			
	Deduction										
	Brick work	1.00			0.785	1.31	1.31	1.200	1.62		
	soling								0.00		
	PCC	1.00			0.785	1.96	1.96	0.25	0.75		
	Murum bedding										
	Total (B)							0.00			
								2.37			
		Net Qty = A - B						3.65		127.506	131.16



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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. :- 110
Page No. :-

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

Measurement No. AMCO/Work/D.R./CH/SHN/2014/184 Date: 01/07/2014

1 of 1

Shidharth nagar , chamber

19th R A BILL MEASUREMENTS CHEMBER DETAILS

SR NO	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Added for Excess height	
SHIDHARTH NAGAR									
1	CH 13.70	SHN.2	565.804	564.304	1.500	-0.500			
2	CH 37.40	SHN.3	566.694	564.394	2.300	0.300			
3	CH 61.10	SHN.4	566.784	564.784	2.000	0.000			
4	CH 82.30	SHN.5	566.664	565.264	1.400	-0.600			
5	CH 101.00	SHN.6	566.534	565.334	1.200	-0.800			
6	CH 123.00	SHN.7	566.554	565.444	1.110	-0.890			
7	CH 150.00	SHN.8	566.864	565.564	1.300	-0.700			
8	CH 172.00	SHN.9	566.964	565.664	1.300	-0.700			
9	CH 182.00	SHN.10	567.124	565.724	1.400	-0.600			
10	CH 192.00	SHN.11	567.384	565.784	1.600	-0.400			
11	CH 203.00	SHN.12	567.884	565.884	2.000	0.000			
12	CH 213.00	SHN.13	567.944	565.944	2.000	0.000			
13	CH 223.00	SHN.14	568.304	566.004	2.300	0.300			
14	CH 248.00	SHN.15	568.724	566.424	2.300	0.300			
15	CH 24.00	SHN.3.1	566.714	564.814	1.900	-0.100			
16	CH30.00	SHN.3.2	566.844	565.144	1.700	-0.300	-16.290	-32.58	
17	CH36.00	SHN.3.3	566.574	565.174	1.400	-0.600			
18	CH43.30	SHN.3.4	566.604	565.204	1.400	-0.600			
19	CH22.00	SHN.6.1	566.404	565.404	1.000	-1.000			
20	CH33.00	SHN.6.2	566.354	565.454	0.900	-1.100			
21	CH43.00	SHN.6.3	566.604	565.504	1.100	-0.900			
22	CH57.00	SHN.6.4	566.664	565.564	1.100	-0.900			
23	CH64.00	SHN.6.5	566.594	565.594	1.000	-1.000			
24	CH75.00	SHN.6.6	566.854	565.654	1.200	-0.800			
25	CH93.00	SHN.6.7	567.044	565.744	1.300	-0.700			
26	CH12.00	SHN.10.1	567.224	566.024	1.200	-0.800			
27	CH23.60	SHN.10.2	567.184	566.084	1.100	-0.900			
28	CH34.90	SHN.10.3	567.544	566.144	1.400	-0.600			
29	CH44.90	SHN.10.4	567.604	566.504	1.100	-0.900			
30	CH62.90	SHN.10.5	567.794	566.594	1.200	-0.800			
TOTAL									-32.58



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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) SFP and Ward No.98 to SFP for Aurangabad City.

Book No. :- **111**
Page No. :-

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)
Date: 01.07.2014

Shidharth nagar, Qty Abstract

1 of 1

QUANTITY ABSTRACT RA 17 th SHIDHARTH NAGAR																			
SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7	Extra Item 9.3 300mm	Extra Item 9.4 300mm	ITEM 11	ITEM 12		ITEM 13		ITEM 21	ITEM 21.1	ITEM 30
			0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0					250mm	315mm	250mm	315mm			
1	For Pipe		244.311	16.705	201.933	35.246	81.068	15.504	41.326	95.000	95.000	71.184	179.100	136.200	179.100	136.200	30.000		508.079
2	For Manhole		101.532	11.420	52.157	15.780	25.746	6.021		95.000	95.000	81.501	179.100	136.200	179.100	136.200	30.000	-32.580	131.156
	Total		345.843	28.125	254.090	51.026	106.814	21.525	41.326	95.000	95.000	152.685	179.100	136.200	179.100	136.200	30.000	-32.580	639.235

(Signature)
28/7/2014



Total up to Date
10