

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. 165

Page No. :-

Page 21 of 22

Shivaji Nagar(Near Nursing College)-CHEMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.160	3.642		157.275	160.917
	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	0.100	0.314		13.790	14.104
	Item No. : 11 Transportation of earth Transportation charges							1.756		71.973	73.729
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.584			
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.210	1.28			
	soling							0.00			
	PCC	1.00		0.785	1.560	1.560	0.250	0.48			
	Murrum bedding							0.00			
	Total (B)							1.76			
		Net Qty = A - B						2.83		140.97	143.80
	SNCS.9R										
	CH76.00	587.906	586.971	586.721			1.185				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		27.581	28.209
	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	0.885	2.779		160.917	163.696
	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	0.100	0.314		14.104	14.418
	Item No. : 11 Transportation of earth Transportation charges							1.465		73.729	75.194
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.721			
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	0.935	0.99			
	soling							0.00			
	PCC	1.00		0.785	1.560	1.560	0.250	0.48			
	Murrum bedding							0.00			
	Total (B)							1.47			
		Net Qty = A - B						2.26		143.80	146.05
	SNCS.10R										
	CH81.70	587.791	586.991	586.741			1.050				



[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. :-

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

Page 22 of 22

Details

Last Measurement

Shivaji Nagar(Near Nursing College)-CHEMBER Measurement

Shivaji Nagar (Near Nursing College)-CHEMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Up Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.200	0.628		28.209	28.209
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	4.000	0.000	0.000		0.000	0.000
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.750	2.355		163.696	166.051
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				0.785	4.000	0.000	0.000		14.922	14.922
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.100	0.314		14.418	14.732
	Item No. : 11 Transportation of earth Transportation charges				0.785	4.000	0.000	0.000		0.000	0.000
	Item No. 30 :- Refilling the excavated trenches ...							1.323		75.194	76.517
	Total Excavation(A)=										
	Deduction							3.297			
	Brick work	1.00									
	soling		0.785	1.160	1.160	0.800		0.85			
	PCC	1.00						0.00			
	Murrum bedding		0.785	1.560	1.560	0.250		0.48			
	Total (B)							0.00			
	Net Qty = A - B							1.32			
								1.97		146.05	148.02



[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. :- 167

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

Page 1 of 2

Shivaji Nagar(Near Nursing College)-CHEMBER

9th R A BILL MEASURMENTS CHEMBER DETAILS SHIVAJINAGAR(NEAR NURSING COLLEGE)

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 2.0		Total Rebate Qty for 50 cm
		No			For per 50 cm		
		GL	IL	DEPTH			
A	Item No. : 21 Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M etc., complete						
1	SNCL1	586.161	584.826	1.335	2	-0.665	-9.41
2	SNCL2	586.176	584.896	1.280	2	-0.720	
3	SNCL3	586.546	585.191	1.355	2	-0.645	
4	SNCL4	586.621	585.336	1.285	2	-0.715	
5	SNCL5	586.846	585.476	1.370	2	-0.630	
6	SNCL6	587.106	585.746	1.360	2	-0.640	
7	SNC3	585.636	583.961	1.675	2	-0.325	
8	SNC4	585.836	584.021	1.815	2	-0.185	
9	SNC5	586.046	584.226	1.820	2	-0.180	
	Total					-4.705	-9.41



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. :-

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

Page 2 of 2

Shivaji Nagar(Near Nursing College)-CHEMBER

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebat Qty for 30 cm
		No			Depth of 1.5		
		GL	IL	DEPTH	For per 30 cm		
A	Extra Item. No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.9 m dia at top and up to a depth of 1.5 M etc., complete						
1	SNC1.7	587.186	586.216	0.970	1.5	-0.530	-31.683
2	SNC1.8	587.236	586.486	0.750	1.5	-0.750	
3	SNC3.1	585.760	584.210	1.550	1.5	0.050	
4	SNC3.2	585.840	584.420	1.420	1.5	-0.080	
5	SNC4.1L	585.716	584.211	1.505	1.5	0.005	
6	SNC4.2L	585.526	584.216	1.310	1.5	-0.190	
7	SNC4.3L	585.526	584.276	1.250	1.5	-0.250	
8	SNC4.1R	586.086	584.801	1.285	1.5	-0.215	
9	SNC4.2R	586.376	585.076	1.300	1.5	-0.200	
10	SNC4.3R	586.626	585.371	1.255	1.5	-0.245	
11	SNC4.4R	586.831	585.596	1.235	1.5	-0.265	
12	SNC4.5R	586.936	585.731	1.205	1.5	-0.295	
13	SNC4.6R	587.106	585.876	1.230	1.5	-0.270	
14	SNC4.7R	587.236	585.976	1.260	1.5	-0.240	
15	SNC4.7.1R	587.296	586.696	0.600	1.5	-0.900	
16	SNC4.8R	587.246	585.996	1.250	1.5	-0.250	
17	SNC4.9R	587.296	586.096	1.200	1.5	-0.300	
18	SNC5.3L	585.456	584.486	0.970	1.5	-0.530	
19	SNC5.2L	585.526	584.486	1.040	1.5	-0.460	
20	SNC5.1L	585.806	584.476	1.330	1.5	-0.170	
21	SNC5.1R	586.366	585.171	1.195	1.5	-0.305	
22	SNC5.2R	586.636	585.386	1.250	1.5	-0.250	
23	SNC5.3R	587.076	585.756	1.320	1.5	-0.180	
24	SNC5.4R	587.036	585.806	1.230	1.5	-0.270	
25	SNC5.5R	587.206	585.926	1.280	1.5	-0.220	
26	SNC5.6R	587.406	586.256	1.150	1.5	-0.350	
27	SNC5.7R	587.596	586.386	1.210	1.5	-0.290	
28	SNC5.8R	587.771	586.561	1.210	1.5	-0.290	
29	SNC5.9R	587.906	586.971	0.935	1.5	-0.565	
30	SNC5.10R	587.791	586.991	0.800	1.5	-0.700	
Total						-9.505	-31.683



QUANTITY ABSTRACT

SHIVAJINAGAR (NEAR NURSING COLLEGE)

SR NO	Description	MB/FO	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12				ITEM 13		ITEM 21	ITEM 21.1		ITEM 30	ITEM 35	Extra Item 2		Extra Item 2.a
			0.1.5	0.1.6	0.1.6	0.1.6	0.1.6	0.1.6			200mm	250mm	200mm	250mm	0.2 m	Rebate		0-1.5 m	Rebate					
1	For Pipe		62.000	250.663	18.922	24.021	23.659	35.097	312.870	55.000	312.870	55.000				9.000	-9.410		311.588	0.370				
2	For Manhole		28.837	166.051	14.922	14.732		76.516								9.000	-9.410		148.026		30.000		-31.683	
	Total		81.717	416.913	33.843	38.753	23.659	111.614	312.870	55.000	312.870	55.000				9.000	-9.410		459.613	0.370	30.000		-31.683	



PMC

CLIENT

Ex. Engineer

Project Engineer

Jr. Engineer

Project Engineer

Project Engineer

Authorized Signatory

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 Vencture)

Book No. :- 169

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.

Book No. :-

Page No. :-

Name

Page 1 of 1

Author

9th R A BILL MEASUREMENTS

Measurements of Road Work at SAHAS SOCIETY

Sr. No.	Chainage	Length of Road	Width Of Excavation	Avg. Width by Part wise	Depth of Excavation	Depth of 80/40mm Stone	Depth of DLC M10	Depth of C.C.(M30)
---------	----------	----------------	---------------------	-------------------------	---------------------	------------------------	------------------	--------------------

Part A:- WBM & Concrete work Near Udhog Indramal

1	0	36.60	3.55	3.730	0.400	0.300	0.075	0.100
2	5.1		3.60					
3	10.8		4.30					
4	21.6		4.20					
5	36.6		3.00					
6	46.3	46.70	3.30	3.275	0.400	0.300	0.075	0.100
7	64.1		2.30					
8	68.3		3.30					
9	83.3		4.20					
10	100	16.70	2.35	2.325	0.400	0.300	0.075	0.100
			2.3					
		100.000		3.110	0.400	0.300	0.075	0.100

Part B:- WBM & Concrete work at Sahas Society (Saraswati Nagar)

1	0	2.00	1.50	1.500	0.400	0.300	0.075	0.100
2	0	3.20	0.60	0.600	0.400		0.075	0.100
3	0	31.90	10.50	6.260	0.400		0.075	0.100
4	2.8		10.50				0.075	0.100
5	16.8		3.80				0.075	0.100
6	25.4		3.00				0.075	0.100
7	31.9	3.50	3.188	0.400	0.300	0.075	0.100	
8	41.9	3.45						
9	49.4	2.50						
10	55.4	3.10						
11	59.1	3.70	3.325	0.400	0.300	0.075	0.100	
12	61.5	2.60						
13	65.2	3.70						
14	75.2	3.10						
15	95.6	3.90	3.800	0.400	0.300	0.075	0.100	
16	105.2	4.55						
17	122.4	3.50						
18	139.8	3.35						
		139.800		3.112	0.400	0.300	0.075	0.100

Part C:- WBM & Paver work at Sahas Society

1	0	42.000	4.500	4.525	0.350	0.300	Paver Block
2	14		4.950				
3	28		4.300				
4	42		4.350				
5	56	56.000	3.600	3.900	0.350		
6	70		3.900				
7	84		4.100				
8	98		4.000				
9	112	33.800	4.200	4.133	0.350		
10	126		4.200				
11	131.8		4.000				
		131.800		4.186	0.350	0.300	
		Say		3.500			



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. 1111
Page No. 1111

Page 1 of 1

9th R A BILL MEASUREMENTS

ROAD WORK AT SAHAS SOCIETY

Sr. No.	Descriptions of Items	Nos	L	B	D	Unit	Qty
	ITEM NO. 1:- Excavation for foundation/pipe trenches in earth soils of all types sand gravel and soft marl, manually or by using mechanical means including & removing the excavated materials, up to a distance of 500 m beyond the area, and lifts as below. Shoring and spreading as directed by engineer-in-charge, normal dewatering preparing the bed for foundation and excluding back filling etc complete.						
	Part A	1	100.00	3.11	0.40	Cum	124.40
	Part B	1	139.80	3.11	0.40	Cum	174.03
	Part C	1	131.80	3.50	0.35	Cum	161.46
						Cum	459.88
	Item No. 11:- Disposal of excavated material including loading the excavated material in trucks / tractors and unloading the same at a distance of 10 KMS as directed by engineer-in-charge.						
	Part A	1	100.00	3.11	0.40	Cum	124.40
	Part B	1	139.80	3.11	0.40	Cum	174.03
	Part C	1	131.80	3.50	0.35	Cum	161.46
						Cum	459.88
	Item No. 6 Providing and laying in situ Cement Concrete of trap/granite /quartzite/gneiss metal for RCC work in foundation like raft,grillage,strip foundation and footing of RCC columns and steel stanchions including normal dewatering form work,bally,steel props,compaction finishing and curing etc complete (b, weigh,batching and mix design for M250 and M300 only Use of L&T, ACC,Ambuja ,Birla gold etc. cement is permitted.						
	Part A	1	100.00	3.11	0.10	Cum	31.10
	Part B	1	139.80	3.11	0.10	Cum	43.51
						Cum	74.61
	Item No. 21 Road restoration - Supply, Spreading, Compacting 80mm and 40 mm metal. Providing and laying 20mm bituminous premix carpet using 90/70 grade, Providing liquid seal coat as per de-specifications, etc complete as directed by Engineer-in-charge (11% only for WBM (80mm & 40mm Layer) work 730/10000 = 7.30)						
	Part A-0.3m Depth	1	100.00	3.11		Sqm	311.00
	Part B-0.3m Depth	1	139.80	3.11		Sqm	435.07
	Part C-0.3m Depth	1	43.70	3.50		Sqm	152.95
						Sqm	899.02
	Extra Item - (N/a) - Providing and Casting in Situ Cement Concrete with 1:2:4 of trap/granite/quartzite/gneiss metal for steps/formwork work including centering,formwork						
	Part A	1	100.00	3.11	0.10	Cum	31.10
	Part B	1	139.80	3.11	0.10	Cum	43.51
						Cum	74.61
	Extra Item - Providing and laying/jointing of Inter Locking Paver Blocks etc completed						
	Part C	1	131.80	3.50		Sqm	461.30
						Sqm	461.30



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. :-

Page 1

Pipe Lying MB Sainagar (Sutgirni chowk) DWC

9th R A BILL MEASUREMENTS DWC PIPE SAINAGAR (SUTGIRNI CHOWK)

SUT GIRNI CHOWK											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200MM Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.50m										
	SNSC 1 to SNSC 2										
	CH0.00	586.540	585.490	585.390							
	CH13.00	586.870	585.740	585.640			1.150	1.190			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						1.230				
	(a) For Lift 0 to 1.5m	1			11.000	0.700	0.990	7.623		0.000	7.623
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.700	0.150	1.155		0.000	1.155
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.700	0.050	0.385		0.000	0.385
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.600	0.700	0.100	0.812		0.000	0.812
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.176		0.000	1.176
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			12.100			12.100		0.000	12.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction							9.163			
	pipe area	1.00									
	soling		0.785	11.600	0.200	0.200		0.36			
	PCC							0.00			
	Murrum bedding							0.00			
								0.81			
								1.18			
	SNSC 2 to SNSC 3							7.99		0.00	7.987
	CH13.00	586.870	585.740	585.640							
	CH24.30	587.290	586.130	586.030			1.230				
							1.260	1.245			



[Handwritten signature]

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.700	1.045	6.803		7.623	14.426
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.700	0.150	0.977		1.155	2.132
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.300	0.700	0.050	0.326		0.385	0.711
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			9.900	0.700	0.100	0.693		0.812	1.505
	Item No. 11 Transportation of earth Transportation charges including loading &							1.004		1.176	2.180
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.400			10.400		12.100	22.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.105			
	Deduction										
	pipe area	1.00		0.785	9.900	0.200	0.200	0.31			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.69			
								1.00			
	Net Qty = A - B							7.10		7.99	15.088
	SNSC 3 to SNSC 4										
	CH24.38	587.290	586.130	586.030			1.260	1.165			
	CH35.90	587.590	586.620	586.520			1.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.600	0.700	0.965	6.485		14.426	20.911
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.600	0.700	0.150	1.008		2.132	3.140
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.600	0.700	0.050	0.336		0.711	1.047
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			10.200	0.700	0.100	0.714		1.505	2.219



Handwritten signature or mark.

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahas Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshatra (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, laying rising main GRP DI nine line from Golwadi SPS to Nakshatra (Kanchanwadi) STP and Ward No.98 to

Book No. :-

Page No. :-

Page 3

Pipe Lying MB SaiNagar (Sutgirni chowk) DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.034		2.180	3.214
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.700			10.700		22.500	33.214
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.829			
	Deduction										
	pipe area	1.00		0.785	10.200	0.200	0.200	0.32			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.71			
								1.03			
		Net Qty = A - B						6.79		15.09	21.884
	SNSC 4 to SNSC 5										
	CH35.90	587.590	586.620	586.520			1.070				
	CH45.50	587.920	586.910	586.810			1.110	1.090			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.700	0.890	4.735		20.911	25.646
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.700	0.150	0.798		3.140	3.938
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.700	0.050	0.266		1.047	1.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.200	0.700	0.100	0.574		2.219	2.793
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.831		3.214	4.045
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.700			8.700		33.200	41.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.799			
	Deduction										
	pipe area	1.00		0.785	8.200	0.200	0.200	0.26			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.57			
								0.83			
		Net Qty = A - B						4.97		21.88	26.854
	SNSC 6 to SNSC 7										



12

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, Laying, jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Unsanitized City.

Book No. 175

Page No. A

Page 4

Pipe Lying MB SaiNagar (Sutgirni chowk) DWC

Page 4

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH0.00	587.380	586.400	586.300			1.080	1.140			
	CH9.10	587.760	586.660	586.560			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.700	0.990	4.920		25.646	30.566
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.700	0.150	0.746		3.938	4.683
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.700	0.700	0.100	0.539		2.793	3.332
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.781		4.046	4.827
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.200			8.200		41.900	50.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.666			
	Deduction										
	pipe area	1.00		0.785	7.700	0.200	0.200	0.24			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.54			
								0.78			
	Net Qty = A - B							4.89		26.85	31.735
	SNSC 7 to SNSC 8										
	CH9.10	587.760	586.660	586.560			1.200	1.015			
	CH9.60	587.600	586.870	586.770			0.830				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.700	0.865	5.147		30.566	35.713
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.700	0.150	0.893		4.683	5.576
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.100	0.700	0.100	0.637		3.332	3.969
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.923		4.827	5.749
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			9.600			9.600		50.100	59.700



12

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.

Book No. :-

Page No. :-

116

Page 5

Pipe Lying MB SaiNagar (Sutgiri chowk) DWC

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 ...										
	Total Excavation=							6.039			
	Deduction										
	pipe area	1.00		0.785	9.100	0.200	0.200	0.29			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.64			
								0.92			
		Net Qty = A - B						5.12		31.73	36.851
	SNSC 8 to SNSC 9										
	CH19.60	587.600	586.870	586.770			0.830	0.765			
	CH28.90	587.720	587.120	587.020			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.700	0.615	3.143		35.713	38.855
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.700	0.150	0.767		5.576	6.342
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.900	0.700	0.100	0.553		3.969	4.522
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.801		5.749	6.550
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.400			8.400		59.700	68.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.909			
	Deduction										
	pipe area	1.00		0.785	7.900	0.200	0.200	0.25			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.55			
								0.80			
		Net Qty = A - B						3.11		36.85	39.951
	SNSC 9 to SNSC 10										
	CH28.90	587.720	587.120	587.020			0.700	0.640			
	CH34.60	587.830	587.350	587.250			0.580				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.700	0.490	1.269		38.855	40.124
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



Handwritten signature or mark.

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. :- 177

Page No. :-

Page 6

Pipe Lying MB SaiNagar (Sutgirn chowk) DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			3.700	0.700	0.150	0.389		6.342	6.731
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.300	0.700	0.100	0.301		4.522	4.823
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.436		6.550	6.986
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.800			4.800		68.100	72.900
	Item No. 34 :- Refilling the excavated trenches ...										
	Total Excavation=							1.658			
	Deduction										
	pipe area	1.00		0.785	4.300	0.200	0.200	0.14			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							0.30			
								0.44			
		Net Qty = A - B						1.22		39.96	41.181
	SNSC 8 to SNSC 8.1										
	CH0.00	587.600	586.870	586.770			0.830	0.883			
	CH15.10	588.330	587.495	587.395			0.935				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	0.700	0.733	6.871		40.124	46.995
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	0.700	0.150	1.407		6.731	8.138
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	0.700	0.000	0.000		1.313	1.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.700	0.700	0.100	0.959		4.823	5.782
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.389		6.986	8.376
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			14.200			14.200		72.900	87.100
	Item No. 34 :- Refilling the excavated trenches ...										
	Total Excavation=							8.278			
	Deduction										
	pipe area	1.00		0.785	13.700	0.200	0.200	0.43			
	soiling							0.00			
	PCC							0.00			



Handwritten signature/initials.

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murrum bedding							0.96			
								1.39			
		Net Qty = A - B						6.89		41.18	48
	DWC - 200MM Dia	Laxminagar Sutgirini Chowk									
	LNS 1 to LNS 2										
	CH0.00	586.795	585.980	585.880			0.915	1.005			
	CH12.70	587.255	586.260	586.160			1.095				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.700	0.605	4.531		46.995	51.527
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.700	0.400	2.996		8.138	11.134
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.700	0.000	0.000		1.313	1.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.700	0.100	0.791		5.782	6.573
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.146		8.376	9.522
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.800			11.800		87.100	98.902
	Item No. 30 :- Refilling the excavated trenches _										
	Total Excavation=							7.527			
	Deduction										
	pipe area	1.00		0.785	11.300	0.200	0.200	0.35			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.79			
								1.15			
		Net Qty = A - B						6.38		48.07	54.452
	LNS 2 to LNS 3										
	CH12.70	587.255	586.260	586.160			1.095	1.068			
	CH25.20	587.470	586.530	586.430			1.040				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.700	0.668	4.906		51.527	56.433
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.700	0.400	2.940		11.134	14.074



10

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salem Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrowadi (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 Nakshtrowadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 179

Page No. :-

Page 8

Pipe Lying MB SaiNagar (Sutgiri chowk) DWC

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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.700	0.000	0.000		1.313	1.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.100	0.700	0.100	0.777		6.573	7.350
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.126		9.521	10.647
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.600			11.600		98.900	110.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.846			
	Deduction										
	pipe area	1.00		0.785	11.100	0.200	0.200	0.35			
	soling							0.00			
	POC							0.00			
	Murum bedding							0.78			
								1.13			
		Net Qty = A - B						6.72		54.45	61.172
	LNS 3 to LNS 4										
	CH25.20	587.470	586.530	586.430			1.040	1.090			
	CH42.70	587.870	586.830	586.730			1.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.700	0.690	7.487		56.433	63.919
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.700	0.400	4.340		14.074	18.414
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.700	0.000	0.000		1.313	1.313
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.100	0.700	0.100	1.127		7.350	8.477
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.633		10.647	12.280
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			16.600			16.600		110.500	127.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.827			
	Deduction										



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. 189

Page No. 1

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

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

Page 9

Pipe Lying MB SaiNagar (Sutgirni chowk) DWC

Pipe Laying MB Sainagar (Sutgirn chowk) DWC											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Up Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1.00		0.785	16.100	0.200	0.200	0.51			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.13			
								1.63			
		Net Qty = A - B						10.19		61.17	71.36
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.100			0.10			0.10



[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. :-

Page No. :-

181

Page 1

Manhole MB SaiNagar (Sutgirni chowk) DWC

9th RA BILL MEASURMENTS OF CHEMBERS SAINAGAR(SUTGIRNI CHOWK)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m										
	Area for chamber up to 1.5m=2 X 2=4m										
	SNSC 1										
	CHD.00	586.540	585.490	585.240			1.300				
	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	1.100	3.454		0.000	3.454
	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 &							1.587		0.000	1.587
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.082			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.050	1.11			
	Isoling							0.00			
	POC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.59			
	Net Qty = A - B							2.50		0.000	2.495
	SNSC 2										
	CHD.00	586.870	585.740	585.490			1.380				
	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	1.180	3.705		3.454	7.159
	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



Manhole MB SaiNagar (Sutgirni chowk) DWC

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. : 11 Transportation of earth Transportation charges including loading &							1.671		1.587	3.258
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.333			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.130	1.19			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.67			
		Net Qty = A - B						2.66		2.495	5.157
	SNSC 3										
	CH24.30	587.290	586.130	585.880			1.410				
	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	1.210	3.799		7.159	10.959
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum 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 &							1.703		3.258	4.961
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.427			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.160	1.23			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.70			
		Net Qty = A - B						2.72		5.157	7.882
	SNSC 4										
	CH35.90	587.590	586.620	586.370			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			0.785	4.000	1.020	3.203		10.959	14.161
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		1.413	1.884



Handwritten signature or mark.

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. :-

183

Page 3

Manhole MB SaiNagar (Sutgirni chowk) DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	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		0.471	0.628
	Item No. 11 Transportation of earth Transportation charges including loading &							1.502		4.961	6.463
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.831			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.970	1.02			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.50			
	Net Qty = A - B							2.33		7.882	10.210
	SNSC 5										
	CH45.50	587.920	586.910	586.660			1.260				
	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	1.060	3.328		14.161	17.490
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		1.884	2.355
	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		0.628	0.785
	Item No. 11 Transportation of earth Transportation charges including loading &							1.544		6.463	8.007
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.956			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.010	1.07			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.54			
	Net Qty = A - B							2.41		10.210	12.622
	SNSC 6										
	CH45.40	587.380	586.400	586.150			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	1.080	3.391		17.490	20.881



20

Page 4

Manhole MB SaiNagar (Sutgirni chowk) DWC

Page 4

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. 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		2.355	2.826
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.513		8.007	9.520
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.862			
	Deduction										
	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			
	Murrum bedding							0.00			
	Total (B)							1.51			
		Net Qty = A - B						2.35		12.622	14.972
	SNSC 7										
	CH9.10	587.760	586.660	586.410			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	4.000	1.200	3.768		20.881	24.649
	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		2.826	3.297
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.640		9.520	11.160
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.239			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.100	1.16			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.64			
		Net Qty = A - B						2.60		14.972	17.571
	SNSC 8										
	CH19.60	587.600	586.870	586.620			0.980				
	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	0.830	2.606		24.649	27.255
	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		3.297	3.768



Handwritten signature/initials.

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 G.I. pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to S. for Aurangabad City.

Book No. :- 185

Page No. :-

Page 5

Manhole MB SaiNagar (Sutgirni chowk) DWC

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. : 11 Transportation of earth Transportation charges including loading &							1.249		11.160	12.408
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.077			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.730	0.77			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.25			
		Net Qty = A - B						1.83		17.571	19.400
	SNSC 9										
	CH28.90	587.720	587.120	586.870			0.850				
	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	0.700	2.198		27.255	29.453
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		3.768	4.239
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.111		12.408	13.520
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.669			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.600	0.63			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.11			
		Net Qty = A - B						1.56		19.400	20.957
	SNSC 10										
	CH34.60	587.830	587.350	587.100			0.730				
	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	0.580	1.821		29.453	31.274
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		4.239	4.710
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.985		13.520	14.504



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. 186

Page No. :-

Page 6

Manhole MB SaiNagar (Sutgirni chowk) DWC

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 ...										
	Total Excavation(A)=							2.292			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.480	0.51			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							0.98			
		Net Qty = A - B						1.31		20.957	22.265
	SNSC 8.1										
	CH15.10	588.330	587.495	587.245			1.085				
	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	0.935	2.936		31.274	34.210
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		4.710	5.181
	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	0.000	0.000		0.785	0.785
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.360		14.504	15.864
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.407			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.835	0.88			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.36			
		Net Qty = A - B						2.05		22.265	24.312
	DWC - 200MM Dia	Laxminagar Sutgirini Chowk									
	LNS 01										
	CH0.00	586.795	585.980	585.730			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			0.785	4.000	0.665	2.088		34.210	36.298
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.400	1.256		5.181	6.437



Handwritten signature or mark.

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/PI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to CIDCO (Airport).

Book No. :- 187
Page No. :-

Page 7

Manhole MB SaiNagar (Sutgirni chowk) DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	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	0.000	0.000		0.785	0.785
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.338		15.864	17.203
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.344			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.815	0.86			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.34			
	Net Qty = A - B							2.01		24.312	26.318
	LNS 02										
	CH12.70	587.255	586.260	586.010			1.245				
	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	0.845	2.653		36.298	38.952
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.400	1.256		6.437	7.693
	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	0.000	0.000		0.785	0.785
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.529		17.203	18.731
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.909			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.995	1.05			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.53			
	Net Qty = A - B							2.38		26.318	28.699
	LNS 03										
	CH25.20	587.470	586.530	586.280			1.190				
	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	0.790	2.481		38.952	41.432



24

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. 188
Page No. :-

Page 8

Manhole MB SaiNagar (Sutgiri chowk) DWC

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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.400	1.256		7.693	8.949
	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	0.000	0.000		0.785	0.785
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.471		18.731	20.202
	charges including loading &										
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.737			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.940	0.99			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.47			
								2.27		28.699	30.965
	LNS 04										
	CH42.70	587.870	586.830	586.580			1.290				
	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	0.890	2.795		41.432	44.227
	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	0.400	1.256		8.949	10.205
	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	0.000	0.000		0.785	0.785
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.576		20.202	21.778
	charges including loading &										
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.051			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.040	1.10			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.58			
								2.47		30.965	33.439



Handwritten signature.

**Measurement Book**

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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. :- 189
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

Page 1

Manhole Details SaiNagar (Sutgirni chowk) DWC

9th R A BILL MEASUREMENTS CHEMBER DETAILS

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30 cm
		No			Depth of 1.5 mtr		
		CTL	IL	DEPTH	For per 30 cm		
	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						
A	SAINAGAR (SUTGIRNI CHOWK)						
1	SNSC 1	586.540	585.490	1.050	1.500	-0.45	-19.13
2	SNSC 2	586.870	585.740	1.130	1.500	-0.37	
3	SNSC 3	587.290	586.130	1.160	1.500	-0.34	
4	SNSC 4	587.590	586.620	0.970	1.500	-0.53	
5	SNSC 5	587.920	586.910	1.010	1.500	-0.49	
6	SNSC 6	587.500	586.400	1.100	1.500	-0.40	
7	SNSC 7	587.875	586.660	1.215	1.500	-0.28	
8	SNSC 8	587.810	586.870	0.940	1.500	-0.56	
9	SNSC 9	587.980	587.120	0.860	1.500	-0.64	
10	SNSC 10	588.130	587.350	0.780	1.500	-0.72	
11	SNSC 8.1	588.040	587.495	0.545	1.500	-0.96	
						-5.74	
	TOTAL						-19.13
B	Laxminagar Sutgirini Chowk						
1	LNS 01	586.975	585.980	0.995	1.500	-0.50	-6.78
2	LNS 02	587.360	586.260	1.100	1.500	-0.40	
3	LNS 03	587.360	586.530	0.830	1.500	-0.67	
4	LNS 04	587.870	586.830	1.040	1.500	-0.46	
						-2.03	
	TOTAL						-6.78



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. :-

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

SaiNagar (Sutgiri chowk) DWC

9th RA QUANTITY ABSTRACT

SAINAGAR (SUTGIRNI CHOWK)

SR NO	Discription	MB/PG	ITEM 1 0-1.5	ITEM 2 0-1.5	ITEM 4 0-1.5	ITEM 7	ITEM 11	ITEM 12 200mm	ITEM 13 200mm	ITEM 30	ITEM 35	Extra Item 2 0-1.5 m	Extra Item 2.a Rebate
1	For Pipe		63.919	18.414	1.313	8.477	12.280	127.100	127.100	71.366	0.100		
2	For Manhole		34.210	5.181	0.785		15.864			24.312		15.000	-25.917
	Total		98.130	23.595	2.098	8.477	28.144	127.100	127.100	95.678	0.100	15.000	-25.917

CONTRACTOR



PMC



CLIENT

Project Manager
Jr. Engineer
Dy. Engineer
Ex. Engineer

Authorized Signatory

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. :- 191
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

Page 1 of 1

Abh

9th R A BILL MEASURMENTS

Measurements of Road Work at Hotel Tandur to RTO office back Side

Sr. No.	Chainage	Length of Road	Width Of Excavation	Avg. Width by Part wise	Depth of Excavation	Qty of Excavation
1	0	80.0	3.000	3.000	0.400	96
2	20		3.000			
3	40		3.000			
4	60		3.000			
5	80		3.000			
6	100	80.0	3.000	3.000	0.400	96
7	120		3.000			
8	140		3.000			
9	160		3.000			
10	180	80.0	3.000	3.000	0.400	96
11	200		3.000			
12	220		3.000			
13	240		3.000			
14	260	80.0	3.000	3.000	0.400	96
15	280		3.000			
16	300		3.000			
17	320		3.000			
18	340	80.0	3.000	3.000	0.400	96.00
19	360		3.000			
20	380		3.000			
21	400		3.000			
22	420	80.0	3.000	3.000	0.400	96.00
23	440		3.000			
24	460		3.000			
25	480		3.000			
26	500	80.0	3.000	3.000	0.400	96.00
27	520		3.000			
28	540		3.000			
29	560		3.000			
30	576	16.0	3.000	3.000	0.400	19.20
		576.0		3.000		691.2
			Say	2.500		



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. :-

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

D:
M
re

9th R A BILL MEASURMENTS

ROAD WORK AT HOTEL TANDUR TO RTO OFFICE BACK SIDE

Sr. No.	Descriptions of Items	Nos	L	B	D	Unit	
1	ITEM NO. 1 :- Excavation for foundation/pipe trenches in earth soils of all types sand gravel and soft murum, manually or by using mechanical means including & removing the excavated materials, up to a distance of 50.0 m beyond the area, and lifts as below. Stacking and spreading as directed by engineer-in-charge, normal dewatering preparing the bed for foundation and excluding back filling etc complete.	1	576	2.500	0.4	Cum	576
2	Item No. 11:- Disposal of excavated material including loading the excavated material in trucks / tractors and unloading the same at a distance of 10 KMS as directed by engineer-in-charge.	1	576	2.500	0.35	Cum	504
3	Item No. : 31 Road restoration - Supply, Spreading, Compacting 80mm and 40 mm metal. Providing and laying 75mm hot mix bitumen layer, 20mm bituminous premix carpet using 60/70 grade, Providing liquid seal coat as per detailed specifications, etc complete as directed by Engineer-in-Charge. (RR only for WBM (80mm & 40mm Layer) work 730 - 533.08 = 196.92 & Hold 10% amount for material without proper Gradation)	1	576	2.500		Sq. Mtr	1440
						Sq. Mtr	1440

CONTRACTOR
Authorized Signatory

Services * Fortress Infrastructure
Project Engineer

Services * Fortress Infrastructure
Project Manager

Jr. Engineer

CLIENT
Dy. Engineer
Ex. Engineer

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. :-

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

1 of 1

Nalla Work near Sunder Hotel Nalla work Near sunder Hotel

9th RA BILL MEASURMENTS OF CONCRETE WORK NEAR SUNDER HOTEL(BALAJI NAGAR)

Date	Particulars of work	DETAILS				Content of arrears	Last measurment		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
	NALA WORK NEAR SUNDER HOTEL								
A	Item No:6								
	Providing and laying in situ Cement Concrete of trap/granite /quartzite/gneiss metal for RCC work in foundation like								
	a)Nalla Slab	1	80.25	1.10	0.15	13.24		0.000	13.24
						13.24		0.000	13.24
B	Extra Item :5(b) - Providing & Casting M15 Grade PCC for								
	a)Mass Concrete of Wall	2	8.90	0.15	0.40	1.07		0.000	1.07
	b)Extra Concrete work Near Bholu Vadapav	1	9.15	0.80	0.10	0.73		0.000	0.73
		1	9.00	0.44	0.10	0.40		0.000	0.40
						2.20			2.20
C	Item No:4								
	Extra Item 9.8 :- Providing & Fixing in position SERC manhole cover with frame for manhole etc complete.								
	b) 0.9mx0.6m					9.00		0.000	9.00
D	Item No. 28 Providing and fixing in position steel bar reinforcement of various diameters for RCC piles caps					0.56		0.000	0.56



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 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. :-

194

Page No. :-

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

1 of 1

Nalla Work near Sunder Hotel BBS For Nala work

9th R A BILL MEASURMENTS										
BBS for NALLA WORK(SUNDER HOTEL)										
Sr. No.	Description	Dia of Bar	Spacing	Nos	No of members	Total Nos	cut length	Lap length	overall cutting length	8mm (MT)
	TOP SLAB									
A	Slab size 10.60mx1.1m									
1	# 8@150 C/C Along length	8	0.15	72.00	1	72.00	1.26	0	90.72	0.036
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	10.76	0	96.84	0.038
B	Slab size 7.15mx1.1m									
1	# 8@150 C/C Along length	8	0.15	49.00	1	49.00	1.26	0	61.74	0.024
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	7.31	0	65.79	0.026
C	Slab size 4.90mx1.1m									
1	# 8@150 C/C Along length	8	0.15	34.00	1	34.00	1.26	0	42.84	0.017
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	5.06	0	45.54	0.018
D	Slab size 9.80mx1.1m									
1	# 8@150 C/C Along length	8	0.15	67.00	1	67.00	1.26	0	84.42	0.033
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	9.96	0	89.64	0.035
E	Slab size 12mx1.1m									
1	# 8@150 C/C Along length	8	0.15	81.00	1	81.00	1.26	0	102.06	0.040
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	12.16	0	109.44	0.043
F	Slab size 4.90mx1.1m									
1	# 8@150 C/C Along length	8	0.15	34.00	1	34.00	1.26	0	42.84	0.017
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	5.06	0	45.54	0.018
G	Slab size 14.50mx1.1m									
1	# 8@150 C/C Along length	8	0.15	98.00	1	98.00	1.26	0	123.48	0.049
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	14.66	0	131.94	0.052
H	Slab size 7.90mx1.1m									
1	# 8@150 C/C Along length	8	0.15	54.00	1	54.00	1.26	0	68.04	0.027
2	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	8.06	0	72.54	0.029
I	Slab size 8.50mx1.1m									
	# 8@150 C/C Along length	8	0.15	58.00	1	58.00	1.26	0	73.08	0.029
	# 8@150 C/C Along width	8	0.15	9.00	1	9.00	8.66	0	77.94	0.031
									TOTAL	0.563



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. 195

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

Nalla Work at Vishnu Nagar Quantity Node Abstract

9th R A BILL MEASUREMENTS

CONCRETE WORK AT VISHNU NAGAR

SR NO	Description	MB/PG	ITEM 1	ITEM 2	ITEM 4	ITEM 6	ITEM 11	EIRL 4		EIRL 5	EIRL 9.8		EIRL 9.10
			0-1.5	0-1.5	0-1.5			a	b	b	b	0.9 X 0.6	Structural Steel Work
1	For Nalla Work		32.391	7.413	6.157	5.515	43.197	9.991	43.437	8.429	7.000	0.079	
	Total		32.391	7.413	6.157	5.515	43.197	9.991	43.437	8.429	7.000	0.079	

CONTRACTOR



Authorized Signatory

PMC



Project Engineer



Project Manager

CLIENT

[Signature]

Jr. Engineer

[Signature]

Dy. Engineer

[Signature]

Ex. Engineer

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. :- 196
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

Nalla Work near Sunder Hotel Quantity Node Abstract

1 of 1

9th R A BILL MEASUREMENTS						
CONCRETE WORK NEAR SUNDER HOTEL(BALAJI NAGAR)						
SR NO	Description	MB/PG	ITEM 6	ITEM 28	EIRL 5	EIRL 9.8
					b	b
						0.9 X 0.6
1	For Nalla Work		13.241	0.563	2.196	9.000
	Total		13.241	0.563	2.196	9.000

CONTRACTOR

PMC

CLIENT



Authorized Signatory



Project Engineer



Project Manager

[Signature]

[Signature]
Ex. Engineer

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. :- 197
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

Page 1 of 1

Abh

9th R A BILL MEASUREMENTS

Measurements of Road Work at RAILWAY STATION MATUN MARKET

Sr. No.	Chainage	Length of Road	Width Of Excavation	Avg. Width by Part wise	Depth of Excavation	Qty of Excavation
1	0	15.0	2.50	2.7	0.3	11.925
2	15		2.80			
3	15	15.0	2.80	2.8	0.3	12.6
4	30		2.80			
5	30	15.0	2.80	2.8	0.3	12.6
6	45		2.80			
7	45	15.0	2.80	2.8	0.3	12.6
8	60		2.80			
9	60	15.0	2.80	2.9	0.3	13.05
10	75		3.00			
11	75	15.0	3.00	2.9	0.3	13.05
12	90		2.80			
13	90	15.0	2.80	2.8	0.3	12.375
14	105		2.70			
15	105	15.0	2.50	2.6	0.3	11.7
16	120		2.70			
17	120	15.0	2.70	2.7	0.3	12.15
18	135		2.70			
19	135	15.0	2.70	2.7	0.3	12.15
20	150		2.70			
21	150	15.0	2.70	2.7	0.3	12.15
22	165		2.70			
23	165	14.0	2.70	2.7	0.3	11.34
24	179		2.70			
		179.0		2.750		147.690
		Say		2.500		



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. :-

198

Page No. :-

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

Page 1 of 1

9th R A BILL MEASUREMENTS

ROAD WORK AT RAILWAY STATION MATUN MARKET							
Sr. No.	Descriptions of Items	Nos	L	B	D	Unit	Qty
1	ITEM NO. 1 :- Excavation for foundation/pipe trenches in earth soils of all types sand gravel and soft murum, manually or by using mechanical means including & removing the excavated materials, up to a distance of 50.0 m beyond the area, and lifts as below. Stacking and spreading as directed by engineer-in-charge, normal dewatering preparing the bed for foundation and excluding back filling etc complete.	1	179.00	2.50	0.35	Cum	156.63
2	Item No. 11:- Disposal of excavated material including loading the excavated material in trucks / tractors and unloading the same at a distance of 10 KMS as directed by engineer-in-charge.	1	179.00	2.50	0.30	Cum	134.25
3	Item No. : 31 Road restoration - Supply, Spreading, Compacting 80mm and 40 mm metal. Providing and laying 75mm hot mix bitumen layer, 20mm bituminous premix carpet using 60/70 grade, Providing liquid seal coat as per detailed specifications, etc complete as directed by Engineer-in-Charge. (RR only for WBM (80mm & 40mm Layer) work 730 - 533.08 = 196.92 & Hold 5% amount for material without proper Gradation)	1	179.00	2.50		Sq. Mtr	447.50



Authorized Signatory



Project Engineer



Project Manager

Mr. Engineer

CLIENT
Dy. Engineer

Ex. Eng

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. :- 199
Page No. :-

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

Page 1 of 1

Abh

9th R A BILL MEASUREMENTS

Measurements of Concrete Work At Chelipura & Kokanwadi

Sr. No.	Chainage	Length of Concrete	Length by Part wise	Width Of Concrete	Avg. Width by Part wise	Depth of Concrete
---------	----------	--------------------	---------------------	-------------------	-------------------------	-------------------

Chelipura Hanuman Galli

1	0	5.00	10.00	0.00	0.30	0.10
2	5	5.00		0.60		
3	10	5.00	10.00	0.70	0.65	0.10
4	15	5.00		0.60		
5	20	5.00	10.00	0.70	0.78	0.10
6	25	5.00		0.85		
7	30	5.00	10.00	0.75	0.80	0.10
8	35	5.00		0.85		
9	40	5.00	7.00	0.80	0.83	0.10
10	45	2.00		0.85		
11	47	2.25	2.25	0.75	1.38	0.10
12	49.25	0.00		2.00		
		49.25			0.788	0.100

Chelipura Sabji Mandi (Fish Market)

1	0	10.00	20.00	0.00	0.25	0.12
2	10	10.00		0.50		
3	20	10.00	20.00	0.70	0.73	0.12
4	30	10.00		0.75		
5	40	10.00	20.00	0.70	0.70	0.12
6	50	10.00		0.70		
7	60	10.00	20.00	0.70	0.70	0.12
8	70	10.00		0.70		
9	80	5.00	10.00	0.60	0.60	0.12
10	85	5.00		0.60		
11	90	0.00	0.00	2.00	1.00	0.12
12	0	0.00		0.00		
		90.00			0.663	0.120

Chelipura Galli No.01

1	0	4.00	12.10	0.00	0.45	0.12
2	4	8.10		0.90		
3	12.1	13.70	13.70	1.50	1.50	0.12
4	25.8	0.00		1.50		
		25.80			0.975	0.120

Chelipura Galli No.02

1	0	5.00	10.00	0.00	0.45	0.12
2	5	5.00		0.90		
3	10	5.00	10.00	0.75	0.75	0.12
4	15	5.00		0.75		
5	20	5.00	8.70	0.75	0.83	0.12
6	25	3.70		0.90		
7	28.7	0.00	0.00	0.80	0.80	0.12
8	0	0.00		0.80		
		28.70			0.706	0.120



Continue in MB 4603/01