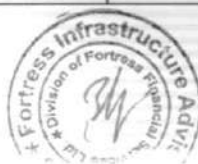




Name of work:- Development of Underground Sewerage Collection system for Zone 1 to 91 and Zone 92 Jim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), 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. 133  
Page No. :-

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	PCC						0.000				
	Murum bedding						1.204				
							1.991				
		Net Qty = A - B						13.130	240.461	253.591	
	<b>KTP25 TO KTP26</b>										
	CH463.90	585.204	584.224	584.124			1.080	0.940			
	CH479.30	585.354	584.654	584.554			0.800				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.400	0.750	0.940	9.447	145.090	154.537	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.000	0.750	0.100	1.050	15.649	16.699	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated							1.737	26.248	27.985	
	<b>Item No. 13 :-</b> (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			14.500			14.500	191.550	206.050	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						9.447				
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	14.000	0.250	0.250	0.687			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.050			
								1.737			
		Net Qty = A - B						7.710	253.591	261.302	
	<b>KTP21 TO KTP21.1</b>										
	CH0.00	583.564	582.184	582.084			1.480	1.075			
	CH20.70	584.034	583.464	583.364			0.670				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.300	0.750	0.825	11.942	154.537	166.479	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.300	0.750	0.150	2.171	116.107	118.278	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.300	0.750	0.100	1.448	0.000	1.448	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.300	0.750	0.100	1.448	16.699	18.146	



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...ing, Testing and Commissioning of Sewage Treatment  
... at Nakharwadi (Kanchanwadi), Banawadi, Siddharth  
... (Airport), Construction, Erection, Testing and Commission  
... Banawadi, Siddharth Garden, Padegam, Gohwadi, Zalta, Ward  
... (Airport), Providing, lowering, laying, jointing and testing rising main  
... Gohwadi SPS to Nakharwadi (Kanchanwadi) STP and Ward No.98 to

Pipe Lying MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated						2.394		27.985	30.379	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			19.800		19.800		206.050	225.850	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>15.561</b>				
	Deduction of 250mm dia pipe pipe area	1.00		0.785	19.300	0.250	0.250	0.947			
	soling						0.000				
	PCC						0.000				
	Murum bedding						1.448				
							<b>2.394</b>				
		<b>Net Qty = A - B</b>						<b>13.166</b>		<b>261.302</b>	<b>274.468</b>
	<b>RCC 250mm Dia</b>										
	<b>Width of Trench -</b>										
	For Bottom Lift 0.00-1.50m- 0.25+0.08+0.08+0.5=0.91m										
	From Bottom Lift 1.50m-3.00m 0.25+0.08+0.08+0.5+0.4=1.31 m										
	From Bottom Lift 3.00m-4.50m- 0.25+0.08+0.08+0.5+0.4+0.4 = 1.71m										
	<b>KTP22 TO KTP22.1</b>										
	CH0.00	584.744	583.373	583.173			1.57	1.411			
	CH15.90	584.994	583.944	583.744			1.25				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.200	0.910	0.700	9.045	166.479	175.524	
	(b) For Lift 1.5m to 3.0m	1			14.200	0.910	0.000	0.000	5.057	5.057	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.200	0.910	0.711	9.188	118.278	127.466	
	(b) For Lift 1.5m to 3.0m	1			14.200	0.910	0.000	0.000	13.586	13.586	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.200	0.910	0.000	0.000	1.448	1.448	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.500	0.910	0.200	2.639	18.146	20.785	
	Item No. : 11 Transportation of earth Transportation charges							3.879	30.379	34.258	
	Extra Item No. 9.4 :- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			15.000			15.000	20.000	35.000	



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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. 157  
 Page No. 157

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia								225.850	225.850	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>						<b>18.233</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	14.500	0.330	0.330	1.240			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.639			
	<b>Total = B</b>							<b>3.879</b>			
		<b>Net Qty = A - B</b>						<b>14.354</b>		<b>274.468</b>	<b>288.822</b>
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.226						0.226



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

Pipe Lying MB Kutubpura-04-250 Dwc

**9th R A BILL MEASURMENTS DWC PIPE " KUTUBPURA-04"**

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=1.100m										
For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
KTP21.2(old) TO KTP21.3										
CH0.00	584.000	583.300	583.200			0.800	0.735			
CH4.80	584.034	583.464	583.364			0.670				
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			3.100	0.700	0.485	1.052	175.524	176.577	
(b) For Lift 1.5 to 3m	1			3.100	0.700	0.000	0.000	5.057	5.057	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1			3.100	0.700	0.150	0.326	127.466	127.791	
(b) For Lift 1.5 to 3m	1			3.100	0.700	0.000	0.000	13.586	13.586	
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			3.100	0.700	0.100	0.217	1.448	1.665	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.400	0.700	0.100	0.238	20.785	21.023	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.345	34.258	34.603	
Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			3.900			3.900	0.000	3.900	
Item No. 30 :- Refilling the excavated trenches ...										
<b>Total Excavation=</b>							<b>1.595</b>			
<b>Deduction of 200mm dia pipe</b>										
pipe area	1.00		0.785	3.400	0.200	0.200	0.107			
soiling							0.000			
PCC							0.000			
Murrum bedding							0.238			
							<b>0.345</b>			
							<b>Net Qty = A - B</b>	<b>1.250</b>	<b>288.822</b>	
KTP21.3 TO KTP21.4										
CH4.80	584.034	583.464	583.364			0.670	0.635			
CH10.80	584.174	583.674	583.574			0.600				



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Name of work:- Excavation of Underground Sewerage Collection System in Zone 1 w...  
 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)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.700	0.385	1.078		176.577	177.655
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.700	0.150	0.420		127.791	128.211
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.700	0.100	0.280		1.665	1.945
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			4.600	0.700	0.100	0.322		21.023	21.345
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.466		34.603	35.069
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia										
	(a) For Lift 0 to 1.5m	1			5.100			5.100		3.900	9.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>1.778</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.00		0.785	4.600	0.200	0.200	0.144			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.322			
								<b>0.466</b>			
								<b>1.312</b>		<b>290.072</b>	<b>291.384</b>
	<b>Net Qty = A - B</b>										
	KTP21.4 TO KTP21.5										
	CH10.80	584.174	583.674	583.574			0.600	0.625			
	CH24.90	584.674	584.124	584.024			0.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.100	0.700	0.475	4.023		177.655	181.678
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.100	0.700	0.150	1.271		128.211	129.482
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			12.700	0.700	0.100	0.889		21.345	22.234
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.288		35.069	36.357



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# Measurement Book

**Name of work:** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning 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.:** 163  
**Page No.:** 163

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.700			11.700		53.960	65.660
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>6.104</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.00		0.785	11.200	0.200	0.200	0.352			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.784			
								<b>1.136</b>			
		<b>Net Qty = A - B</b>								<b>312.284</b>	<b>317.252</b>
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.077					0.226	0.303



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... Testing and Commissioning of Sewage Treatment ...  
... at Nakshtrawadi (Kanchawadi), Basawadi, Siddharth ...  
... Reports, Construction, Erection, Testing and Commission ...  
... Basawadi, Siddharth Garden, Padegam, Gohwadi, Zaha, Ward ...  
... Providing, lowering, laying jointing and testing rising main ...  
... SPS to Nakshtrawadi (Kanchawadi) STP and Ward No.98 to

B. L. L. & GECPI (Joint Venture)

Manhole MB Kutubpura-04-250 Dwc

**9th R A BILL MEASUREMENTS DWC PIPE KUTUBPURA-04**

Item	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 (upto 2.0m depth)-0.9+0.50+0.3+0.3=2m										
	Area for chamber upto 1.5m-2*2=4m										
	KTP13										
	CH246.55	583.184	580.924	580.674			2.510				
	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	1.500	4.710	0.000	4.710	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	1.010	3.171	0.000	3.171	
	Item No. : 11 Transportation of earth Transportation charges							2.86	0.000	2.865	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							7.881			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	2.260	2.387			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							2.865			
								5.017	0.000	5.017	
	KTP14										
	CH257.45	582.610	581.324	581.074			1.536				
	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	1.500	4.710	4.710	9.420	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.036	0.113	3.171	3.284	
	Item No. : 11 Transportation of earth Transportation charges							1.84	2.865	4.701	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							4.823			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.286	1.358			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.836			
								2.987	5.017	8.004	
	KTP15										
	CH272.60	582.844	581.454	581.204			1.640				
	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	1.500	4.710	9.420	14.130	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.140	0.440	3.284	3.724	



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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. :- 165  
Page No. :-

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

Page 2

Manhole MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges						1.95		4.701	6.647	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>5.150</b>				
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.390	1.468			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>						<b>1.946</b>				
		<b>Net Qty = A - B</b>						<b>3.204</b>	<b>8.004</b>	<b>11.207</b>	
	KTP16										
	CH283.60	582.824	581.474	581.224			1.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.500	1.570	14.130	15.700	
	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	1.000	3.140	0.000	3.140	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.100	0.314	0.000	0.314	
	Item No. : 11 Transportation of earth Transportation charges						1.90		6.647	8.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>5.024</b>				
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.350	1.426			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>						<b>1.904</b>				
		<b>Net Qty = A - B</b>						<b>3.120</b>	<b>11.207</b>	<b>14.328</b>	
	KTP17										
	CH293.70	582.724	581.494	581.244			1.480				
	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	0.500	1.570	15.700	17.270	
	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	0.980	3.077	3.140	6.217	
	Item No. : 11 Transportation of earth Transportation charges						1.78		8.550	10.327	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>4.647</b>				
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.230	1.299			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			



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... Commissioning of Sewage Treatment ...  
... Construction, Erection, Testing and Commission ...  
... Providing, lowering, laying jointing and testing rising main ...  
... SPS to Nakshtrawadi (Kanchawadi) STP and Ward No.98 to

Manhole MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Total (B)						1.777				
		Net Qty = A - B					2.870		14.328	17.198	
	KTP18										
	CH319.75	582.534	581.514	581.264			1.270				
	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	0.500	1.570	17.270	18.840	
	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	0.770	2.418	6.217	8.635	
	Item No. : 11 Transportation of earth Transportation charges						1.56		10.327	11.882	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.988				
	Deduction										
	Brick work	1.00			0.785	1.160	1.160	1.020	1.077		
	soling								0.000		
	PCC	1.00			0.785	1.560	1.560	0.250	0.478		
	Murrum bedding								0.000		
	Total (B)						1.555				
		Net Qty = A - B					2.433		17.198	19.631	
	KTP19										
	CH335.65	583.074	581.674	581.424			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	4.000	0.500	1.570	18.840	20.410	
	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	1.000	3.140	8.635	11.775	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.150	0.471	0.314	0.785	
	Item No. : 11 Transportation of earth Transportation charges						1.96		11.882	13.839	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.181				
	Deduction										
	Brick work	1.00			0.785	1.160	1.160	1.400	1.479		
	soling								0.000		
	PCC	1.00			0.785	1.560	1.560	0.250	0.478		
	Murrum bedding								0.000		
	Total (B)						1.956				
		Net Qty = A - B					3.225		19.631	22.856	
	KTP20										
	CH362.65	583.244	581.744	581.494			1.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.500	1.570	20.410	21.980	



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Name of work:- Development of Underground Sewerage Collection system for Zone 1 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.

Page 4

Manhole MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140	11.775	14.915	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.250	0.785	0.785	1.570	
	Item No. : 11 Transportation of earth Transportation charges							2.06	13.839	15.901	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>5.495</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.500	1.584			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>2.062</b>			
		<b>Net Qty = A - B</b>							<b>3.433</b>	<b>22.856</b>	<b>26.288</b>
	KTP21										
	CH376.65	583.564	582.184	581.934			1.630				
	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	0.700	2.198	21.980	24.178	
	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	0.800	2.512	14.915	17.427	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.130	0.408	1.570	1.978	
	Item No. : 11 Transportation of earth Transportation charges							1.94	15.901	17.836	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>5.118</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.380	1.458			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.935</b>			
		<b>Net Qty = A - B</b>							<b>3.183</b>	<b>26.288</b>	<b>29.471</b>
	KTP22										
	CH408.15	584.744	582.774	582.524			2.220				
	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	0.700	2.198	24.178	26.376	
	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	0.800	2.512	17.427	19.939	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.720	2.261	1.978	4.239	
	Item No. : 11 Transportation of earth Transportation charges							2.56	17.836	20.394	
	Item No. 30 :- Refilling the excavated trenches ...										



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Manhole MB Kutubpura-04-250 Dwc

S.No.	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Total Excavation(A)=						6.971				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.970		2.081		
	soling								0.000		
	PCC	1.00		0.785	1.560	1.560	0.250		0.478		
	Murum bedding								0.000		
	Total (B)						2.558				
							4.412	29.471	33.884		
	Net Qty = A - B										
	KTP23										
	CH433.45	584.844	583.304	583.054			1.790				
	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	26.376	28.574	
	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	0.800	2.512	19.939	22.451	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.290	0.911	4.239	5.150	
	Item No. : 11 Transportation of earth Transportation charges							2.10	20.394	22.499	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.621				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.540	1.627			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)						2.104				
							3.516	33.884	37.400		
	Net Qty = A - B										
	KTP24										
	CH446.45	584.874	583.444	583.194			1.680				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.500	4.710	28.574	33.284	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.180	0.565	3.724	4.289	
	Item No. : 11 Transportation of earth Transportation charges							1.99	22.499	24.487	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.275				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.430	1.511			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)						1.988				
							3.287	37.400	40.687		
	Net Qty = A - B										
	KTP25										
	CH463.90	585.204	584.224	583.974			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										



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Name of work:- Development of Underground Sewerage Connection system for Zone 1 to 4 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 arrears	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	4.000	1.230	3.862		33.284	37.146
	Item No. : 11 Transportation of earth Transportation charges							1.51		24.487	25.999
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.862			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	0.980	1.035			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.513			
		<b>Net Qty = A - B</b>								40.687	43.037
	KTP26										
	CH479.30	585.354	584.654	584.404				0.950			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983		37.146	40.129
	Item No. : 11 Transportation of earth Transportation charges							1.22		25.999	27.216
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							2.983			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	0.700	0.739			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.217			
		<b>Net Qty = A - B</b>								43.037	44.803
	KTP22.1										
	CH15.90	584.994	583.944	583.694				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	0.700	2.198		40.129	42.327
	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	0.600	1.884		22.451	24.335
	Item No. : 11 Transportation of earth Transportation charges							1.59		27.216	28.803
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							4.082			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.160	1.160	1.050	1.109			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.587			
		<b>Net Qty = A - B</b>								44.803	47.298
	KTP21.3										
	CH4.80	584.034	583.464	583.214				0.820			



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Manhole MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Item No. 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	0.570	1.790		42.327	44.117
	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		24.335	24.806
	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		0.000	0.314
	Item No. : 11 Transportation of earth Transportation charges							1.08		28.803	29.883
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							2.575			
	<b>Deduction</b>										
	Brick work	1.00			0.785	1.160	1.160	0.570		0.602	
	soling									0.000	
	PCC	1.00			0.785	1.560	1.560	0.250		0.478	
	Murrum bedding									0.000	
	<b>Total (B)</b>							1.080			
					<b>Net Qty = A - B</b>			1.495		47.298	48.793
	KTP21.4										
	CH10.80	584.174	583.674	583.424			0.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.500	1.570		44.117	45.687
	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		24.806	25.277
	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		0.314	0.628
	Item No. : 11 Transportation of earth Transportation charges							1.01		29.883	30.889
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							2.355			
	<b>Deduction</b>										
	Brick work	1.00			0.785	1.160	1.160	0.500		0.528	
	soling									0.000	
	PCC	1.00			0.785	1.560	1.560	0.250		0.478	
	Murrum bedding									0.000	
	<b>Total (B)</b>							1.006			
					<b>Net Qty = A - B</b>			1.349		48.793	50.142
	KTP21.5										
	CH24.90	584.674	584.124	583.874			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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Name of work:- Development 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.

Manhole MB Kutubpura-04-250 Dwc

Date	Particulars of work	DETAILS					Content of arrears	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	4.000	0.550	1.727		45.687	47.414
	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		25.277	25.748
	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		0.628	0.942
	Item No. : 11 Transportation of earth Transportation charges							1.06		30.889	31.947
	Item No. 30 :- Refilling the excavated trenches ...							2.512			
	<b>Total Excavation(A)=</b>										
	<b>Deduction</b>							0.581			
	Brick work	1.00		0.785	1.160	1.160	0.550	0.000			
	soling			0.785	1.560	1.560	0.250	0.478			
	PCC	1.00						0.000			
	Murrum bedding							1.059			
	<b>Total (B)</b>							1.453		50.142	51.596
					Net Qty = A - B						
	KTP24.1						1.140				
	CH14.10	584.949	584.059	583.809							
	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	1.140	3.580		47.414	50.994
	Item No. : 11 Transportation of earth Transportation charges							1.42		31.947	33.365
	Item No. 30 :- Refilling the excavated trenches ...							3.580			
	<b>Total Excavation(A)=</b>										
	<b>Deduction</b>							0.940			
	Brick work	1.00		0.785	1.160	1.160	0.890	0.000			
	soling			0.785	1.560	1.560	0.250	0.478			
	PCC	1.00						0.000			
	Murrum bedding							1.418			
	<b>Total (B)</b>							2.162		51.596	53.758
					Net Qty = A - B						
	KTP24.2						0.990				
	CH23.16	585.139	584.399	584.149							
	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	0.990	3.109		50.994	54.102
	Item No. : 11 Transportation of earth Transportation charges							1.26		33.365	34.624
	Item No. 30 :- Refilling the excavated trenches ...							3.109			
	<b>Total Excavation(A)=</b>										
	<b>Deduction</b>							0.782			
	Brick work	1.00		0.785	1.160	1.160	0.740	0.000			
	soling			0.785	1.560	1.560	0.250	0.478			
	PCC	1.00						0.000			
	Murrum bedding										



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... Commissioning of Sewage Treatment ...  
 ... Construction, Erection, Testing and Commission ...  
 ... Providing, lowering, laying jointing and testing rising main ...  
 ... SPS to Nakshtrawadi (Kanchawadi) STP and Ward No.98 to

Manhole MB Kutubpura-04-250 Dwc

Item	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
	GL	No IL	EX.L	L	B	D		Page	Quantity	
Total (B)							1.259			
	Net Qty = A - B						1.849		53.758	55.607
KTP24.2 CH24.45	585.179	584.479	584.229			0.950				
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983	54.102	57.085	
Item No. : 11 Transportation of earth Transportation charges							1.22	34.624	35.841	
Item No. 30 :- Refilling the excavated trenches ...							2.983			
Total Excavation(A)=										
Deduction										
Brick work	1.00		0.785	1.160	1.160	0.700	0.739			
soling							0.000			
PCC	1.00		0.785	1.560	1.560	0.250	0.478			
Murrum bedding							0.000			
Total (B)							1.217			
	Net Qty = A - B						1.766		55.607	57.373
KTP24.1.1 CH12.60	584.739	584.229	583.979			0.760				
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	0.760	2.386	57.085	59.472	
(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	4.289	4.289	
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	0.000	0.000	25.748	25.748	
(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	5.150	5.150	
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	0.942	0.942	
(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	0.000	0.000	
Item No. : 11 Transportation of earth Transportation charges							1.02	35.841	36.857	
Item No. 30 :- Refilling the excavated trenches ...							2.386			
Total Excavation(A)=										
Deduction										
Brick work	1.00		0.785	1.160	1.160	0.510	0.539			
soling							0.000			
PCC	1.00		0.785	1.560	1.560	0.250	0.478			
Murrum bedding							0.000			
Total (B)							1.016			
	Net Qty = A - B						1.370		57.373	58.743



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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. :- 173  
Page No. :-

Page 1

Manhole Details Kutubpura-04-250 Dwc

**9th R A BILL CHEMBER DETAILS KUTUBPURA-04**

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30
		No			Depth of 1.5 mtr		
		GL	IL	DEPTH	For per 30 cm		
A	Extra Item No. :2 Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1	KTP13	583.184	580.924	2.260	1.5	0.760	-24.247
2	KTP14	582.610	581.324	1.286	1.5	-0.214	
3	KTP15	582.844	581.454	1.390	1.5	-0.110	
4	KTP16	582.824	581.474	1.350	1.5	-0.150	
5	KTP17	582.724	581.494	1.230	1.5	-0.270	
6	KTP18	582.534	581.514	1.020	1.5	-0.480	
7	KTP19	583.854	581.674	2.180	1.5	0.680	
8	KTP20	583.244	581.744	1.500	1.5	0.000	
9	KTP21	583.564	582.184	1.380	1.5	-0.120	
10	KTP22	584.744	582.774	1.970	1.5	0.470	
11	KTP23	584.844	583.304	1.540	1.5	0.040	
12	KTP24	584.874	583.444	1.430	1.5	-0.070	
13	KTP25	585.204	584.224	0.980	1.5	-0.520	
14	KTP26	585.354	584.654	0.700	1.5	-0.800	
15	KTP22.1	584.994	583.944	1.050	1.5	-0.450	
16	KTP21.3	584.034	583.464	0.570	1.5	-0.930	
17	KTP21.4	584.174	583.674	0.500	1.5	-1.000	
18	KTP21.5	584.674	584.124	0.550	1.5	-0.950	
19	KTP24.1	584.949	584.059	0.890	1.5	-0.610	
20	KTP24.2	585.139	584.399	0.740	1.5	-0.760	
21	KTP24.3	585.179	584.479	0.700	1.5	-0.800	
22	KTP24.1.1	584.739	584.229	0.510	1.5	-0.990	
	Total					-7.274	-24.247



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... Contracting, Erecting, Testing and Commissioning of Sewage Treatment Plant (STP) at Nakshtrawadi (Kanchanwadi), Banowadi, Siddharth Garden, Padegaon, Golwadi, Zaita, Ward No. 98 and CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping station at Banowadi, Siddharth Garden, Padegaon, Golwadi, Zaita, Ward No. 98 and CIDCO (Airport), Providing, lowering, laying, jointing and testing rising main from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No. 98 to STP for Banowadi City.

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

Author

Date of Measurement

Qty. Abstract Kutubpur-04-250 Dwc

**QUANTITY ABSTRACT  
KUTUBPURA-04**

SR NO	Discription	MB/PG	ITEM 1		ITEM 2		ITEM 4	ITEM 7	ITEM 11	ITEM 12		ITEM 13		ITEM 30	ITEM 35	Extra Item 2 0-1.5 m	Extra Item 2.a Rebate	EXTRA ITEM 9.3 250mm	EXTRA ITEM 9.4 250mm
			0-1.5	1.5-3.0	0-1.5	1.5-3.0				200mm	250mm	200mm	250mm						
1	For Pipe		207.252	5.057	129.923	13.586	1.945	25.101	40.510	65.660	225.850	65.660	225.850	317.252	0.303	22.00	-24.25	35.000	35.000
2	For Manhole		59.472	4.289	25.748	5.150	0.942	36.857	77.368	65.660	225.850	65.660	225.850	58.743	0.303	22.00	-24.25	35.000	35.000
	<b>Total</b>		266.724	9.346	155.671	18.735	2.887	25.101	77.368	65.660	225.850	65.660	225.850	375.995	0.303	22.00	-24.25	35.000	35.000

**CONTRACTOR**  
Khilari Infra Pvt. Ltd.  
Authorized Signatory

**PMC**  
Infrastructure Adviser  
Project Engineer

**PMC**  
Infrastructure Adviser  
Project Manager

**CLIENT**  
Dy. Engineer

**CLIENT**  
Ex. Engineer

Last surement		Total up Date
Quantity		
9		10

**9th R A BILL MEASUREMENTS**

**PANCHAKKI-02**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC 300mm Dia										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.96m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+0.4=1.36m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4 = 1.76m										
	P0(OLD) TO P1										
	CH0.00	568.930	567.440	567.240			1.69				
	CH3.05	568.930	567.440	567.240			1.69	1.690			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			1.720	1.360	0.300	0.702	0.000	0.702	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.720	1.360	1.200	2.807	0.000	2.807	
	(b) For Lift 1.5m to 3.0m	1			1.720	0.960	0.255	0.421	0.000	0.421	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.720	0.960	0.200	0.330	0.000	0.330	
	Item No. : 11 Transportation of earth Transportation charges including							0.525	0.000	0.525	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			2.500			2.500	0.000	2.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							3.930			
	Deduction										
	pipe area	1		0.785	1.720	0.380	0.380	0.195			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.330			
	Total = B							0.525			
	Net Qty = A - B							3.405	0.000	3.405	
	P1 TO P2										
	CH3.05	568.930	567.440	567.240			1.69				
	CH16.65	569.460	567.840	567.640			1.82	1.755			
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			10.940	1.360	0.300	4.464	0.702	5.165	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard										
	(a) For Lift 0 to 1.5m	1			10.940	1.360	1.200	17.854	2.807	20.661	
	(b) For Lift 1.5m to 3.0m	1			10.940	0.960	0.320	3.361	0.421	3.782	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			10.940	0.960	0.200	2.100	0.330	2.431	
	Item No. : 11 Transportation of earth							3.341	0.525	3.866	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			12.500			12.500	2.500	15.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							25.678			
	Deduction										
	pipe area	1		0.785	10.940	0.380	0.380	1.240			



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... Testing and Commissioning of Sewage Treatment ...  
 ... (Kanchanwadi), Basewadi, Siddharth ...  
 ... Construction, Erection, Testing and Commission ...  
 ... Siddharth Garden, Padegaon, Golwadi, Zalta, Ward ...  
 ... Providing, lowering, laying jointing and testing rising main ...  
 ... SPS at Nakharawadi (Kanchanwadi) STP and Ward No.98 to

S.No.	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	soling						0.000				
	PCC						0.000				
	Murram bedding						2.100				
	<b>Total = B</b>						<b>3.341</b>				
	<b>P2 TO P3</b>	<b>Net Qty = A - B</b>						<b>22.338</b>	<b>3.405</b>	<b>25.742</b>	
	CH16.65	569.460	567.840	567.640			1.82				
	CH35.25	569.890	568.090	567.890			2.00	1.910			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.940	1.360	0.300	6.504	5.165	11.669	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.940	1.360	1.150	24.930	20.661	45.591	
	(b) For Lift 1.5m to 3.0m	1			15.940	0.960	0.410	6.274	3.782	10.056	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.940	1.360	0.050	1.084	0.000	1.084	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.940	0.960	0.200	3.060	2.431	5.491	
	Item No. : 11 Transportation of earth Transportation charges including							4.867	3.866	8.733	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			17.500			17.500	15.000	32.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>38.792</b>			
	Deduction										
	pipe area	1			0.785	15.940	0.380	0.380	1.807		
	soling							0.000			
	PCC							0.000			
	Murram bedding							3.060			
	<b>Total = B</b>							<b>4.867</b>			
	<b>P3 TO P4</b>	<b>Net Qty = A - B</b>						<b>33.924</b>	<b>25.742</b>	<b>59.667</b>	
	CH35.25	569.890	568.090	567.890			2.00				
	CH51.35	570.550	568.980	568.780			1.77	1.885			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.770	1.360	0.300	5.618	11.669	17.287	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.770	1.360	1.150	21.536	45.591	67.128	
	(b) For Lift 1.5m to 3.0m	1			13.770	0.960	0.385	5.089	10.056	15.145	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(a) For Lift 0 to 1.5m	1			13.770	1.360	0.050	0.936	1.084	2.020	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			13.770	0.960	0.200	2.644	5.491	8.135	
	Item No. : 11 Transportation of earth Transportation charges including							4.205	8.733	12.938	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			15.000			15.000	32.500	47.500	



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salm 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 line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>						<b>33.180</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	13.770	0.380	0.380	1.561			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.644			
	<b>Total = B</b>							<b>4.205</b>			
		<b>Net Qty = A - B</b>						<b>28.975</b>		<b>59.667</b>	<b>88.642</b>
	<b>P3 TO P3.1</b>										
	CH0.00	569.890	568.090	567.890			2.00				
	CH16.10	570.070	568.540	568.340			1.73	1.865			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.100	1.360	0.300	5.753	17.287	23.040	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.100	1.360	1.050	20.135	67.128	87.262	
	(b) For Lift 1.5m to 3.0m	1			14.100	0.960	0.365	4.941	15.145	20.086	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.100	1.360	0.150	2.876	2.020	4.897	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.100	0.960	0.200	2.707	8.135	10.842	
	Item No. : 11 Transportation of earth Transportation charges including							4.305	12.938	17.243	
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			15.000			15.000	47.500	62.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>33.705</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	14.100	0.380	0.380	1.598			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.707			
	<b>Total = B</b>							<b>4.305</b>			
		<b>Net Qty = A - B</b>						<b>29.399</b>		<b>88.642</b>	<b>118.041</b>
	<b>P3.1 TO P3.2</b>										
	CH16.10	570.070	568.540	568.340			1.73				
	CH22.20	569.890	568.840	568.640			1.25	1.490			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.100	0.960	0.300	1.181	23.040	24.221	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.100	0.960	1.090	4.290	87.262	91.553	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.100	0.960	0.100	0.394	4.897	5.290	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			4.100	0.960	0.200	0.787	10.842	11.629	



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...ing, Testing and Commissioning of Sewage Treatment ...  
... at Nakhshwadi (Kanchurwadi), Banerwadi, Siddharth ...  
... (Airport), Construction, Erection, Testing and Commission ...  
... Banerwadi, Siddharth Garden, Padegaon, Golwadi, Zaita, Ward ...  
... Providing, lowering, laying jointing and testing rising main ...  
... STP and Ward No. 98 to

Item	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No. : 11 Transportation of earth Transportation charges including							1.252		17.243	18.495
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			5.000			5.000		62.500	67.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A										
	Deduction							5.865			
	pipe area	1		0.785	4.100	0.380	0.380	0.465			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.787			
	Total = B							1.252			
	P3.2 TO P3.3							4.613		118.041	122.654
	CH22.20	569.890	568.840	568.640							
	CH33.30	569.850	569.180	568.980			1.25	1.060			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.960	0.300	2.621		24.221	26.841
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.960	0.660	5.766		91.553	97.318
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.960	0.100	0.874		5.290	6.164
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.100	0.960	0.200	1.747		11.629	13.377
	Item No. : 11 Transportation of earth Transportation charges including							2.779		18.495	21.274
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.000			10.000		67.500	77.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A										
	Deduction							9.260			
	pipe area	1		0.785	9.100	0.380	0.380	1.032			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.747			
	Total = B							2.779			
	DWC - 250mm Dia							6.481		122.654	129.135
	Width of Trench -										
	For Lift 0 to 1.50m-0.25+0.5=0.75m										
	For Lift 1.5 to 3.00m-0.25+0.5+0.4=1.15m										
	For Lift 3.0 to 4.5m-0.25+0.5+0.4+0.4=1.55m										
	P3.1TO P3.1/1										
	CH0.00	570.070	568.540	568.440			1.630				
	CH6.00	570.175	568.550	568.450			1.725	1.678			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	1.150	0.300	1.380		26.841	28.221



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# Measurement Book

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

Book No. :- **179**  
Page No. :-

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(b) For Lift 1.5 to 3.0m	1			4.000	0.750	0.000	0.000		0.000	0.000
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	1.150	1.100	5.060		97.318	102.378
	(b) For Lift 1.5 to 3.0m	1			4.000	0.750	0.178	0.534		20.086	20.620
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	1.150	0.100	0.460		6.164	6.624
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.750	0.100	0.345		13.377	13.722
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated							0.571		21.274	21.845
	<b>Item No. 13 :-</b> (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			5.100			5.100		0.000	5.100
	<b>Extra Item no.-9.4)</b> Lowering & Laying RCC NP3 class pipe of 300mm Dia	1								77.500	77.500
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>7.434</b>			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	4.600	0.250	0.250	0.23			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.35			
								<b>0.57</b>			
								<b>6.86</b>		129.135	136.00
					Net Qty = A - B						

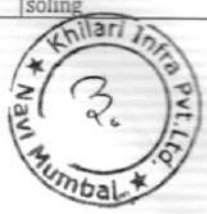


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Panchakki-02 Chamber Measurement..

**8th RA BILL MEASUREMENTS OF CHAMBERS PANCHAKKI-02**

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m Bredth for chember upto 2m=2.66*2.66=7.075m										
	<b>P1</b>										
	<b>CH0.00</b>	568.930	567.440	567.190			1.740				
	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	7.075	0.300	1.666	0.000	1.666	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.200	6.665	0.000	6.665	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.240	1.333	0.000	1.333	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.761	0.000	2.761	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>9.664</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.490	2.01			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.76</b>			
	<b>Net Qty = A - B</b>							<b>6.90</b>	<b>0.000</b>	<b>6.90</b>	
	<b>P2</b>										
	<b>CH16.65</b>	569.460	567.840	567.590			1.870				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	1.666	3.332	
	Item No. 2 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.150	6.387	6.665	13.052	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.370	2.055	1.333	3.388	
	Item No. 4 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278	0.000	0.278	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.936	2.761	5.697	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>10.386</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.620	2.18			
	soling							0.00			



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2 of 4

Panchakki-02 Chamber Measurement..

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.94</b>			
		<b>Net Qty = A - B</b>						<b>7.45</b>		<b>6.903</b>	<b>14.35</b>
	P3										
	CH35.25	569.890	568.090	567.840				2.050			
	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	7.075	0.300	1.666		3.332	4.998
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.150	6.387		13.052	19.439
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.550	3.055		3.388	6.442
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278		0.278	0.555
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.179		5.697	8.876
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>11.385</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.800	2.42			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>3.18</b>			
		<b>Net Qty = A - B</b>						<b>8.21</b>		<b>14.35</b>	<b>22.56</b>
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=2 X 2=4m										
	P4										
	CH51.35	570.550	568.980	568.730				1.820			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		4.998	5.940
	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	1.150	3.611		19.439	23.050
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.320	1.005		6.442	7.447
	Item No. 4 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157		0.555	0.712
	Item No. : 11 Transportation of earth Transportation charges							2.136		8.876	11.012
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>5.715</b>			



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Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	1.570	1.66			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.14</b>			
		<b>Net Qty = A - B</b>						<b>3.58</b>		22.56	26.14
	<b>P3.1</b>										
	<b>CH16.10</b>	570.070	568.540	568.290			1.780				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	5.940	6.882	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.050	3.297	23.050	26.347	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.280	0.879	7.447	8.326	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.712	1.183	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							2.094	11.012	13.106	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>5.589</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	1.530	1.62			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.09</b>			
		<b>Net Qty = A - B</b>						<b>3.50</b>		26.14	29.63
	<b>P3.2</b>										
	<b>CH22.20</b>	569.890	568.840	568.590			1.300				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	6.882	7.824	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.900	2.826	26.347	29.173	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	1.183	1.497	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.587	13.106	14.693	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>4.082</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	1.050	1.11			



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Name of work:- Development of Underground Sewerage and Commissioning of Sewage Treatment 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.

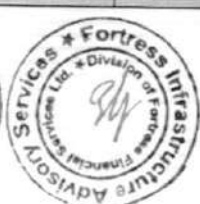
Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencture)

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

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Panchakki-02 Chember Measurement..

Date	Particulars of work	DETAILS					Content of area	Last measurment		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	soling						0.00				
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.59</b>			
		<b>Net Qty = A - B</b>							<b>2.50</b>		
	P3.3								29.63	32.13	
	CH33.30	569.850	569.180	568.930			0.920				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	7.824	8.766	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.520	1.633	29.173	30.805	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	8.326	8.326	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	1.497	1.811	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.185	14.693	15.878	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>2.889</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.670	0.71			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.19</b>			
		<b>Net Qty = A - B</b>							<b>1.70</b>	<b>32.13</b>	<b>33.83</b>



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... and Sewerage Collection system for Zone I to VI  
... at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth  
... Padegaon, Gofwadi, Zalta, Ward  
... Providing, lowering, laying jointing and testing rising main  
... from Gofwadi SPS to Nakshrawadi (Kanchanwadi) STP and Ward No.98 to  
... City.

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

Panchakki-02 CHEMBER  
**9th R A BILL MEASUREMENTS CHEMBER DETAILS**

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 2.0 mtr For per 50 cm	Total Rebate Qty for 50 cm
		No				
		GL	IL	DEPTH		
A	Item No. 21 : Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M etc., complete					
	PANCHAKKI-02					
1	P1					
2	P2	568.930	567.440	1.490	2.000	-0.510
3	P3	569.460	567.840	1.620	2.000	-0.380
	TOTAL	569.890	568.090	1.800	2.000	-0.200
					-1.090	-2.18

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
		No				
		GL	IL	DEPTH		
B	Extra Item No. :3 Providing and constructing on sewer.BBM manhole 0.9 m dia and up to a depth of 1.5 M etc., complete					
	PANCHAKKI-02					
1	P4					
2	P3.1	570.550	568.980	1.570	1.5	0.070
3	P3.2	570.070	568.540	1.530	1.5	0.030
4	P3.3	569.890	568.840	1.050	1.5	-0.450
	Total	569.850	569.180	0.670	1.5	-0.830
					-1.180	-3.93



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Name of work:- Development of 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  
Author

Date of Measurement

Panchakki-02 Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Panchakki- 02

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 21		ITEM 30	EIRL3 Full Rate	EIRL 3.a Rebate	EIRL 9.3 300mm	EIRL 9.4 300mm
			0-1.5	0-1.5	0-1.5	1.5-3.0	0-1.5	0-1.5			upto 2 m	Rebate		250mm	250mm					
1	For Pipe		28.221	102.378	20.620	6.624	13.722	21.845	5.100	5.100	136.00	77.500	77.500							
2	For Manhole		8.766	30.805	8.326	1.811	15.878	37.723	5.100	5.100	33.832	3.000	(2.180)	4.000	(3.933)					
	<b>Total</b>		<b>36.988</b>	<b>133.184</b>	<b>28.946</b>	<b>8.435</b>	<b>13.722</b>	<b>37.723</b>	<b>5.100</b>	<b>5.100</b>	<b>169.83</b>	<b>3.000</b>	<b>(2.180)</b>	<b>4.000</b>	<b>(3.933)</b>			<b>77.500</b>	<b>77.500</b>	

CONTRACTOR  
K. V. Infratech Pvt. Ltd.  
Authorized Signatory

PMc  
Project Engineer

Project Manager

Jr. Engineer

CLIENT  
Dy. Engineer

Ex. Engineer

Quantity	Total up to Date
10	



Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

**9th RA BILL MEASUREMENTS DWC PIPE SANJAY NAGAR-03 NIJAMGANJ COLONY**

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up to Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
Part-01	DWC - 315mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	SN 01 to SN 02										
	CH0.00	584.080	583.370	583.270			0.810	0.993			
	CH14.60	584.580	583.505	583.405			1.175				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.815	0.000	0.000	0.000	0.00	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.815	0.393	4.127	0.000	4.127	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.815	0.400	4.205	0.000	4.205	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.815	0.200	2.103	0.000	2.103	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			13.200	0.815	0.100	1.076	0.000	1.076	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.104	0.000	2.104	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
	(a) For Lift 0 to 1.5m	1			13.700			13.700	0.000	13.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.435			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	13.200	0.315	0.315	1.028			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.076			
								2.104			
	Net Qty = A - B							8.331	0.000	8.331	



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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	SN 02 to SN 03										
	CH14.60	584.580	583.505	583.405			1.175				
	CH22.35	584.730	583.830	583.730			1.000	1.088			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.750	0.815	0.488	2.285	4.127	6.411	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.750	0.815	0.400	1.875	4.205	6.080	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.750	0.815	0.200	0.937	2.103	3.040	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.350	0.815	0.100	0.518	1.076	1.593	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.012	2.104	3.116	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.850			6.850	13.700	20.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							5.096			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	6.350	0.315	0.315	0.495			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.518			
								1.012			
								<b>Net Qty = A - B</b>	4.084	8.331	
	SN 03 to SN 04									12.415	
	CH22.35	584.730	583.830	583.730							
	CH33.35	584.770	583.940	583.840			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						0.930	0.965			
	(a) For Lift 0 to 1.5m	1			9.000	0.815	0.365	2.677	6.411	9.088	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.000	0.815	0.400	2.934	6.080	9.014	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.000	0.815	0.200	1.467	3.040	4.507	



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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.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	PCC						0.000				
	Murum bedding						0.750				
							1.466				
		Net Qty = A - B						4.982	17.963	22.945	
	SN 05 to SN 06										
	CH43.95	584.870	584.060	583.960			0.910				
	CH53.05	584.920	584.160	584.060			0.860	0.885			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.815	0.285	1.649	11.331	12.980	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.815	0.400	2.315	11.818	14.132	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.815	0.200	1.157	5.909	7.066	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.700	0.815	0.100	0.628	3.126	3.753	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.227	6.113	7.340	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.200			8.200	40.350	48.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.121			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	7.700	0.315	0.315	0.600			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.628			
								1.227			
		Net Qty = A - B						3.894	22.945	26.839	
	SN 06 to SN 07										
	CH53.05	584.920	584.160	584.060			0.860				
	CH63.45	584.930	584.320	584.220			0.710	0.785			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.815	0.185	1.267	12.980	14.247	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.815	0.400	2.738	14.132	16.871	



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Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.815	0.200	1.369		7.066	8.435
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.000	0.815	0.100	0.734		3.753	4.487
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.435		7.340	8.775
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.500			9.500		48.550	58.050
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>5.374</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	9.000	0.315	0.315	0.701			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.734			
								<b>1.435</b>			
								<b>3.940</b>		<b>26.839</b>	<b>30.778</b>
	SN 07 to SN 08										
	CH63.45	584.930	584.320	584.220			0.710				
	CH76.15	585.120	584.430	584.330			0.790	0.750			
	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	0.815	0.150	1.308		14.247	15.555
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.815	0.400	3.488		16.871	20.359
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.815	0.200	1.744		8.435	10.179
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.815	0.100	0.921		4.487	5.408
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.801		8.775	10.576
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.800			11.800		58.050	69.850



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Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC							0.000			
	Murrum bedding							0.408			
								0.797			
	SN 12 to SN 13	Net Qty = A - B						1.946		42.898	44.844
	CH102.85	584.470	583.880	583.780							
	CH111.45	584.350	583.870	583.770			0.690	0.635			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.600	0.815	0.035	0.188		19.100	19.289
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.600	0.815	0.400	2.152		26.455	28.607
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.600	0.815	0.200	1.076		13.227	14.303
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.200	0.815	0.100	0.587		7.127	7.714
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.148		13.939	15.086
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.700			7.700		92.950	100.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.416			
	Deduction of 315mm dia pipe										
	pipe area	1.000			0.785	7.200	0.315	0.315	0.561		
	soling										
	PCC							0.000			
	Murrum bedding							0.000			
								0.587			
								1.148			
	SN 02 to SN 02/01	Net Qty = A - B						2.268		44.844	47.112
	CH0.00	584.580	583.505	583.405							
	CH12.65	585.110	584.460	584.360			1.175	0.963			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.650	0.815	0.363	3.146		19.289	22.435
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.650	0.815	0.400	3.472		28.607	32.078



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

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Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 4</b> :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.650	0.815	0.200	1.736		14.303	16.039
	<b>Item No. 7</b> :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.250	0.815	0.100	0.917		7.714	8.631
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.793		15.086	16.880
	<b>Item No. 13</b> :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.750			11.750		100.650	112.400
	<b>Item No. 30</b> :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							8.354			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	11.250	0.315	0.315	0.876			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.917			
								1.793			
								6.561		47.112	53.673
<b>Part - 02</b>	<b>SW - 300mm Dia</b>										
	<b>Width of Trench -</b> For Lift 0 to 1.50m- $0.300+0.02+0.02+0.5=0.840m$										
	For Lift 1.5 to 3.00m- $0.300+0.02+0.02+0.5+0.4=$ 1.240m										
	For Lift 3.0 to 4.5m- $0.300+0.5+0.02+0.02+0.4+0.4=$ 1.640m										
	<b>NCS 01 to NCS 02</b>										
	<b>CH0.00</b>	583.700	582.700	582.600				1.100			
	<b>CH10.50</b>	583.900	582.800	582.700				1.200	1.150		
	<b>Item No. 3</b> :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.840	0.000	0.000		0.000	0.000
	<b>Item No. 1</b> :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.840	0.750	5.733		22.435	28.168
	<b>Item No. 2</b> :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	0.840	0.200	1.529		32.078	33.607







Name of work:- Development of Underground Sewerage-Collection System for Zone 1 to 4 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakhshrawadi (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 Nakhshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>Extra Item No. 9.2 (e):-</b> Lowering & Laying of SWG pipe of 300mm Dia	1			9.600			9.600	9.600	19.200	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							9.277			
	<b>Deduction of 300mm dia pipe</b>										
	pipe area	1.000		0.785	9.100	0.320	0.320	0.731			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.764			
								1.496			
	<b>Net Qty = A - B</b>							7.781	60.968	68.749	
<b>Part - 02</b>	<b>DWC - 315mm Dia</b>										
	<b>Width of Trench -</b> For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	<b>NCS 03 to NCS 04</b>										
	CH21.00	584.240	583.030	582.930			1.310				
	CH38.70	584.860	583.960	583.860			1.000	1.155			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.700	0.815	0.755	9.661	34.488	44.149	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.700	0.815	0.200	2.559	35.086	37.645	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.700	0.815	0.200	2.559	19.046	21.606	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.300	0.815	0.100	1.328	10.160	11.488	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							2.598	19.871	22.469	
	<b>Item No. 13 :-</b> (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			16.800			16.800	112.400	129.200	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							14.779			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	16.300	0.315	0.315	1.270			



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Sanjay Nagar-03 Nijamganj Colony-Meas. DWC  
 Construction, Erection, Testing and Commissioning of Sewage Treatment  
 Plant in the area bounded by Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth  
 Garden, Padegaon, Golwadi, Zalta, Ward  
 No.98 and C.A.03. Providing, lowering, laying jointing and testing rising main  
 from Colwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Sanjay Nagar-03 Nijamganj Colony-Meas. DWC

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.328			
								2.598			
		Net Qty = A - B						12.181	68.749	80.930	
	NCS 04 to NCS 05										
	CH38.70	584.860	583.960	583.860			1.000	0.945			
	CH51.30	585.250	584.460	584.360			0.890				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	0.815	0.545	4.708	44.149	48.857	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	0.815	0.200	1.728	37.645	39.373	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.600	0.815	0.200	1.728	21.606	23.333	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.200	0.815	0.100	0.913	11.488	12.401	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.785	22.469	24.255	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.700			11.700	129.200	140.900	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.164			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	11.200	0.315	0.315	0.872			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.913			
								1.785			
		Net Qty = A - B						6.379	80.930	87.308	
	NCS 05 to NCS 06										
	CH51.30	585.250	584.460	584.360			0.890	0.830			
	CH58.30	585.440	584.770	584.670			0.770				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	0.815	0.430	1.752	48.857	50.609	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	0.815	0.200	0.815	39.373	40.188	



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