



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Sewer F-600-MB

		20 Pipe laid before F-47(Near Roplekar Hospital)									
27/05/2016	CH2830.40	579.770	574.267	574.067			5.703	5.688			
	CH2855.40	579.800	574.327	574.127			5.673				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.640	1.500	99.000	1348.301	1447.301	
	(b) For Lift 1.5m to 3.0m	1			25.00	2.240	1.500	84.000	958.092	1042.092	
	(c) For Lift 3.0m to 4.5m	1			25.00	1.840	1.280	58.880	49.494	108.374	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			25.00	1.840	0.220	10.120	259.428	269.548	
	(d) For Lift 4.5m to 6.0m	1			25.00	1.440	0.980	35.280	0.000	35.280	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(d) For Lift 4.5m to 6.0m	1			25.00	1.440	0.208	7.488	6.537	14.025	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			25.00	1.440	0.200	7.200	132.991	140.191	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate										
								18.836	396.788	415.624	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia										
		1			25.00			25.000	282.500	307.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							294.768			
	Deduction										
	pipe area	1.00		0.785	25.00	0.770	0.770	11.64			
	Murrum bedding							7.20			
	Total = B							18.84			
								Net Qty = A - B	275.93	2617.752	2893.684
	CH2855.40	579.800	574.327	574.127			5.673	5.418			
	CH2881.00	579.350	574.387	574.187			5.163				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.640	1.500	95.634	1447.301	1542.935	
	(b) For Lift 1.5m to 3.0m	1			24.15	2.240	1.500	81.144	1042.092	1123.236	
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	0.418	18.574	108.374	126.948	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	1.082	48.080	269.548	317.627	
	(d) For Lift 4.5m to 6.0m	1			24.15	1.440	0.418	14.536	35.280	49.816	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(d) For Lift 4.5m to 6.0m	1			24.15	1.440	0.500	17.388	14.025	31.413	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			24.15	1.440	0.200	6.955	140.191	147.146	
	Item No. : 11 Transportation of earth Transportation charges including										
								18.195	415.624	433.819	





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

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Sewer F-600-MB

Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1				25.00				25.000		307.500	332.500
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A=									275.356			
Deduction												
pipe area	1.00			0.785	24.15	0.770	0.770		11.24			
Murum bedding									6.96			
Total = B									18.20			
									Net Qty = A - B			
F 47									257.16		2893.684	3150.845
CH2881.00	579.350	575.187	574.987					4.363	4.499			
CH2914.70	579.700	575.265	575.065					4.635				
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				30.80	2.240	1.500		103.488		1542.935	1646.423
(b) For Lift 1.5m to 3.0m	1				30.80	1.840	1.500		85.008		1123.236	1208.244
(c) For Lift 3.0m to 4.5m	1				30.80	1.440	0.859		38.098		126.948	165.046
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.												
(c) For Lift 3.0m to 4.5m	1				30.80	1.440	0.500		22.176		317.627	339.803
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
(c) For Lift 3.0m to 4.5m	1				30.80	1.440	0.140		6.209		53.166	59.375
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				30.80	1.440	0.200		8.870		147.146	156.016
Item No. 11 Transportation of earth Transportation charges including									23.206		433.819	457.024
Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1				32.50				32.500		332.500	365.000
Item No 30 :- Refilling the excavated trenches ...												
Total Excavation= A=									254.980			
Deduction												
pipe area	1.00			0.785	30.80	0.770	0.770		14.34			
Murum bedding									8.87			
Total = B									23.21			
									Net Qty = A - B			
F 48									231.77		3150.845	3382.620
CH2914.70	579.700	575.315	575.115					4.585				
CH2935.90	579.750	575.363	575.163					4.587	4.586		600mm/500mm Junction(F49)	
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.												
(a) For Lift 0 to 1.5m	1				18.30	2.240	0.000		0.000		60.995	60.995
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				18.30	2.240	1.500		61.488		1646.423	1707.911
(b) For Lift 1.5m to 3.0m	1				18.30	1.840	1.500		50.508		1208.244	125P
(c) For Lift 3.0m to 4.5m	1				18.30	1.440	0.711		18.736		165.046	183.783





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

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

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

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Item Description	Qty	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(a) For Lift 0 to 1.5m	1		18.30	2.240	0.000	0.000		27.390	27.390	
(b) For Lift 1.5m to 3.0m	1		18.30	1.840	0.000	0.000		219.182	219.182	
(c) For Lift 3.0m to 4.5m	1		18.30	1.440	0.700	18.446		339.803	358.250	
(d) For Lift 4.5m to 6.0m	1		18.30	1.440	0.000	0.000		49.816	49.816	
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1		18.30	2.240	0.000	0.000		19.173	19.173	
(c) For Lift 3.0m to 4.5m	1		18.30	1.440	0.089	2.345		59.375	61.720	
(d) For Lift 4.5m to 6.0m	1		18.30	1.440	0.086	2.266		31.413	33.680	
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(c) For Lift 3.0m to 4.5m	1		18.30	1.440	0.000	0.000		3.395	3.395	
(d) For Lift 4.5m to 6.0m	1		18.30	1.440	0.000	0.000		9.387	9.387	
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1		18.30	1.440	0.200	5.270		156.016	161.287	
Item No. : 11 Transportation of earth Transportation charges including						13.788		457.024	470.812	
Item No 17 (d):- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1		20.00			20.000		365.000	385.000	
Item No 30 :- Refilling the excavated trenches ...						153.790				
Total Excavation= A=										
Deduction										
pipe area	1.00		0.785	18.30	0.770	0.770	8.52			
Murrum bedding							5.27			
							13.79			
Total = B							140.00	3382.620	3522.622	
			Net Qty = A - B							



Signature
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Sewer F-500-MB

19th RA BILL MEASUREMENTS											
SEWER "F"											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
Branch of F Sewer-500mm Dia-Near Balaji Nagar											
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	F 50	40m Gap Before F50									
	CH2975.90	580.650	578.285	578.085			2.565	2.616			
	CH2996.50	580.800	578.333	578.133			2.667				
	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			19.15	1.700	1.500	48.832	1707.911	1756.744	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.300	0.800	19.916	1258.752	1278.668	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.300	0.316	7.867	219.182	227.049	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.300	0.200	4.979	161.287	166.266	
	Item No. : 11 Transportation of earth Transportation charges including							11.330	470.812	482.142	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			20.00			20.000	0.000	20.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							76.615			
	Deduction										
	pipe area	1.00		0.785	19.15	0.650	0.650	6.35			
	Murrum bedding							4.98			
	Total = B							11.33			
					Net Qty = A - B			65.28	3522.622	3587.907	
	CH2996.50	580.800	578.333	578.133			2.667	2.658			
	CH3016.50	580.830	578.381	578.181			2.649				
	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			20.00	1.700	1.500	51.000	1756.744	1807.744	
	(b) For Lift 1.5m to 3.0m	1			20.00	1.300	0.858	22.308	1278.668	1300.976	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			20.00	1.300	0.300	7.800	227.049	234.849	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.00	1.300	0.200	5.200	166.266	171.466	
	Item No. : 11 Transportation of earth Transportation charges including							11.833	482.142	493.976	





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Sewer F-500-MB

Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			25.00			25.000		130.000	155.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							185.400			
Deduction										
pipe area	1.00		0.785	25.00	0.650	0.650	8.29			
Murum bedding							6.50			
Total = B							14.79			
							Net Qty = A - B		170.61	4173.107
									4002.499	4173.107
CH3133.90	583.080	579.310	579.110			3.970	4.325			
CH3149.50	583.920	579.440	579.240			4.680				
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			14.15	2.100	1.500	44.572		2121.814	2166.386
(b) For Lift 1.5m to 3.0m	1			14.15	1.700	1.500	36.082		1436.270	1472.352
(c) For Lift 3.0m to 4.5m	1			14.15	1.300	0.020	0.368		183.783	184.150
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(c) For Lift 3.0m to 4.5m	1			14.15	1.300	1.305	24.005		416.376	440.382
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.300	0.200	3.679		200.482	204.161
Item No. : 11 Transportation of earth Transportation charges including							8.372		560.005	568.377
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			15.00			15.000		155.000	170.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A=							105.028			
Deduction										
pipe area	1.00		0.785	14.15	0.650	0.650	4.69			
Murum bedding							3.68			
Total = B							8.37			
							Net Qty = A - B		96.66	4173.107
									4269.763	
F 53										
CH3149.50	583.920	580.000	579.800			4.120	4.000			
CH3167.60	583.810	580.130	579.930			3.880				
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			16.65	2.100	1.500	52.447		2166.386	2218.834
(b) For Lift 1.5m to 3.0m	1			16.65	1.700	1.300	36.796		1472.352	1509.149
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(b) For Lift 1.5m to 3.0m	1			16.65	1.700	0.200	5.661		309.313	314.974
(c) For Lift 3.0m to 4.5m	1			16.65	1.300	1.000	21.645		440.382	462.027
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.65	1.300	0.200	4.329		204.161	208.490
Item No. : 11 Transportation of earth Transportation charges including							9.851		568.377	578.228



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Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.													
(a) For Lift 0 to 1.5m	1			18.30	1.700	0.000	0.000			33.417	33.417		
(b) For Lift 1.5m to 3.0m	1			18.30	1.300	0.880	20.935			409.755	430.690		
(c) For Lift 3.0m to 4.5m	1			18.30	1.300	0.025	0.595			484.520	485.115		
(d) For Lift 4.5m to 6.0m	1			18.30	1.300	0.000	0.000			49.816	49.816		
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.													
(a) For Lift 0 to 1.5m	1			18.30	1.700	0.000	0.000			19.173	19.173		
(c) For Lift 3.0m to 4.5m	1			18.30	1.300	0.000	0.000			61.720	61.720		
(d) For Lift 4.5m to 6.0m	1			18.30	1.300	0.000	0.000			33.680	33.680		
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.													
(c) For Lift 3.0m to 4.5m	1			18.30	1.300	0.000	0.000			3.395	3.395		
(d) For Lift 4.5m to 6.0m	1			18.30	1.300	0.000	0.000			9.387	9.387		
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)		1		18.30	1.300	0.200	4.758			223.739	228.497		
Item No. : 11 Transportation of earth Transportation charges including							10.827			612.929	623.757		
Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia		1		20.00			20.000			250.000	270.000		
Item No 30 :- Refilling the excavated trenches ...													
Total Excavation= A=										82.945			
Deduction													
pipe area	1.00			0.785	18.30	0.650	0.650			6.07			
Murrum bedding										4.76			
Total = B										10.83			
Net Qty = A - B										72.12	4698.559	4770.677	



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Sewer F-Eknath Nagar- 400mm-MB

11th RA BILL MEASUREMENTS

SEWER "F"

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	400mm Dia-Branch At Eknath Nagar										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	F 18.1	Branch Line From MH F18-800mm Dia Pipe (20m Gap before F18.1)									
	CH20.00	561.910	559.810	559.610			2.30	2.273			
	CH41.20	561.930	559.885	559.685			2.25				
	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			18.00	1.600	1.500	43.200	2444.219	2487.419	
	(b) For Lift 1.5m to 3.0m	1			18.00	1.200	0.773	16.697	1578.675	1595.372	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			18.00	1.200	0.200	4.320	228.497	232.817	
	Item No. : 11 Transportation of earth Transportation charges including							8.594	623.757	632.351	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	0.000	20.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							59.897			
	Deduction										
	pipe area	1		0.785	18.00	0.550	0.550	4.27			
	Murum bedding							4.32			
	Total = B							8.59			
								Net Qty = A - B	51.30	4770.677	4821.979
	F 18.2										
	CH41.20	561.930	559.885	559.685			2.25	2.373			
	CH77.40	562.300	560.000	559.800			2.50				
	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			33.00	1.600	1.500	79.200	2487.419	2566.619	
	(b) For Lift 1.5m to 3.0m	1			33.00	1.200	0.873	34.571	1595.372	1629.943	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			33.00	1.200	0.200	7.920	232.817	240.737	
	Item No. : 11 Transportation of earth Transportation charges including							15.756	632.351	648.107	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.00			35.000	20.000	55.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							113.771			
	Deduction										
	pipe area	1		0.785	33.00	0.550	0.550	7.84			
	Murum bedding							7.92			
	Total = B							15.76			
								Net Qty = A - B	98.01	4821.979	4919.994





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 199
Page No. :-

Page 3 of 4

Sewer F-Eknath Nagar- 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		No						Page	Quantity	
		GL	IL	EXL	L	B				
	Item No. : 11 Transportation of earth Transportation charges including						10.982		663.864	674.845
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00		25.000		90.000	115.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A						79.184			
	Deduction									
	pipe area	1		0.785	23.00	0.550	0.550		5.46	
	Murum bedding								5.52	
	Total = B						10.98			
							Net Qty = A - B			
	F 18.5						68.20		5013.078	5081.281
	CH139.80	562.723	560.805	560.605						
	CH165.40	562.935	560.885	560.685		2.12		2.184		
	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			24.00	1.600	1.350	51.840	2701.019	2752.859
	(b) For Lift 1.5m to 3.0m	1			24.00	1.200	0.684	19.699	1683.568	1703.267
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			24.00	1.600	0.150	5.760	33.417	39.177
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.00	1.200	0.200	5.760	254.177	259.937
	Item No. : 11 Transportation of earth Transportation charges including							11.459	674.845	686.304
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	115.000	140.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A							77.299		
	Deduction									
	pipe area	1		0.785	24.00	0.550	0.550		5.70	
	Murum bedding								5.76	
	Total = B							11.46		
							Net Qty = A - B			
							65.84		5081.281	5147.121
	CH165.40	562.935	560.885	560.685						
	CH188.50	563.165	560.965	560.765		2.25		2.325		
	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			21.50	1.600	1.350	46.440	2752.859	2799.299
	(b) For Lift 1.5m to 3.0m	1			21.50	1.200	0.825	21.285	1703.267	1724.552
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			21.50	1.600	0.150	5.160	39.177	44.337
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			21.50	1.200	0.200	5.160	259.937	265.097
	Item No. : 11 Transportation of earth Transportation charges including							10.265	686.304	696.570



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Continued in MB 4614/01