

SCHEDULE OF ITEMS OF WORK								
S.no	CSR ITEM	DESCRIPTION	QUANTITY	BASIC RATE	UNITS	CEILING PREMIUM	TOTAL RATE	TOTAL AMOUNT
1	8.19	Dismantling brick on edge flooring	18110.00	10.06	per sq.m	3.52	13.58	245951.91
2	9.8	Centring & Shuttering for flat surface	214.00	151.12	per sq.m	52.89	204.01	43658.57
3	9.2	Centring & Shuttering for vertical surface	1032.74	199.30	per sq.m	69.76	269.06	277864.94
4	10.1	P.C.C. 1:4:8 with stone (room + Boundry wall+SW line+Manhole+STP Plant+benching) blast 20mm guage	581.73	1921.23	per cum	672.43	2593.66	1508810.12
5	10.12	Cement Concrete 1:2:4	137.50	2799.75	per cum	727.94	3527.69	485056.69
6	10.46	Extra for mechanical mixer used by the contractor at his own cost	782.31	48.00	per cum	33.60	81.60	63836.50
7	10.47	Extra for vibrator used by the contractor at his own cost	278.08	160.00	per cum	112.00	272.00	75637.76
8	11.07	First class burnt brick work laid in cement sand mortar 1:4 in foundation and plinth.(upto 1.5m)	666.96	2572.89	per cum	1389.36	3962.25	2642662.66
9	11.8	First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level.	30.50	2755.49	per cum	1487.96	4243.45	129425.37
10	15.7	12.5mm th. Inside Cement plaster 1:2 (Manhole)	1696.09	107.18	per sq.m	42.87	150.05	254501.70
11	15.48	Cement rendering on plaster 1mm thick	1696.09	29.13	per sq.m	11.65	40.78	69169.94
12	28.7	Dismantling of bituminous courses of flexible pavements by manual means & disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clauses 202 of MORT & H specifications.	256.00	398.34	cu.m	199.17	597.51	152962.56
13	29.4(A)	For all classes of soil except rocky (upto 3m)	20392.09	209.41	per cum			4270307.57
14	(B)	For depth exceeding 3 metres but not exceeds 4.5m	1359.47	263.89				358750.54
15	(C.)	For depth exceeding 4.5 metres but not exceeds 6m	204.95	252.63				51776.52
16	(D)	For depth exceeding 6 metres but not exceeds 7.5m	83.10	268.20				22287.42
17	(E.)	For depth exceeding 7.5 metres but not exceeds 9m	54.00	290.51				15687.54
18	29.63	SW PIPE (150mm) included all items	3101.69	265.65	per m	79.70	345.35	1071153.13
19	29.36 c	R.C.C. Manhole cover 560mm i/dextra heavy duty	130.00	1990.09				258711.70
20	18.17	cold twisted deformed Fe415 grade as per IS 1786-1985	120.42	4983.14	qtl			600069.72
21		M-30	140.58	4000.00				562320.00
22		Room	181.45	650.00	sq.ft			117942.50
23		Cleanouts	23.00	1300.00	Nos.			29900.00
24		PVC 100 dia connected with pump	28.00	100.00	m			2800.00
25		Pump (1 HP)	3.00	40000.00	Nos.			120000.00
26		Boundry Wall(PCC 1:4:8) length =400 m. approx.	30.00	1921.23	per cum	672.43	2593.66	77809.80
27		Boundry Wall(1:4 First Brick work in foundation and plinth)	106.00	2572.89	per cum	1389.36	3962.25	419998.50
28		Boundary wall (First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level)	138.00	2755.49	per cum	1487.96	4243.45	585596.10
29		Excavation(Boundry Wall upto 3 m.)	225.00	229.41				51617.25
30		Generator(5KW)	1.00				225000.00	225000.00
31		Roads, plantation, embience etc inside STP site						1000000.00
32	29.37 (a)	Providing M.S. foot rests made of 20x20 mm square bar including fixing in manholes with 20x20x10 cm cement concrete blocks 1:2:4 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design.	2390.00	168.03	Nos.	50.40	218.44	522071.60
33	19.31	115 mm thick brick on edge lining in herring bone bond/zig-zag or other specified pattern in 1:3 cement sand mortar over 10mm thick cement plaster 1:3 over 12.50 mm thick cement plaster in 1:5 on sub grade.						
	19.31 (a)	On side slopes.	2205.56	457.10	per sq m	159.98	617.08	1361006.96
	19.31 (b)	In bed	3312.37	435.16	per sq m	152.30	587.46	1945884.88
34		Miscellaneous						500000.00
						TOATAL AMOUNT		20120230.44
		Contractor Profit (10% of total cost)						2012023.04
						Grand Total		22132253.48

QUANTITY CALCULATIONS

S.NO.	DESCRIPTION	no.	L	B	H	E&S	
1	Dismantling brick on edge flooring		3622	5		18110.00	sq.m
2	Centring & Shuttering for flat surface						
	Collection tank	1	3.7	3.7		13.69	
	Screening tank	1	3.4	2.7		9.18	
	Screening tank(pump)	1	2.45	2.7		6.62	
	Manhole(1.2m to 2m)	27	1.5	0.9		36.45	
	Manhole(2m to 3m)	47	1.5	0.9		63.45	
	Manhole(3m to 5m)	63	1.5	0.9		85.05	
					TOTAL	214.44	sq.m
			P				
3	Centring & Shuttering for vertical surface						
	Collection tank(inner)	1	12		8.8	105.60	
	Collection tank(outer)	1	16.4		9.4	154.16	
	Screening tank(inner)	1	8.4		6.3	52.92	
	Screening tank(inlet)	1	7.1		6.3	44.73	
	Inlet+screening tank	1	14.1		6.75	95.18	
	Manhole(1.2m to 2m) base slab	27	7.72		0.2	41.69	
	Manhole(1.2m to 2m) top slab	27	6.64		0.175	31.37	
	Manhole(2m to 3m) base slab	47	7.72		0.2	72.57	
	Manhole(2m to 3m) top slab	47	6.64		0.175	54.61	
	Manhole(3m to 5m) base slab	63	7.72		0.2	97.27	
	Manhole(3m to 5m) top slab	63	6.64		0.175	73.21	
	Cleanouts	23	1.2		0.125	3.45	
					total	826.76	sq.m
4	P.C.C. 1:4:8 with stone						
	room		16.92	1	0.23	3.89	
	Manhole					72.00	
	SW line		3622	1	0.1	362.20	
	Collection tank		6	6	0.15	5.40	
	Screening tank		3.25		3	9.75	
	Screening tank(inlet)		3.3	3	0.15	1.49	
	benching					77.00	
	beam(facultative, maturation tanks)					50.00	
					TOTAL	581.73	cum
5	Cement Concrete 1:2:4						
						137.50	cum
6	Extra for mechanical mixer used by the contractor at his own cost						
	P.C.C. 1:4:8 with stone(as from 4)					581.73	
	Manhole(as from 5)					137.50	
	P.C.C. 1:4:8 with stone(as per 26)					30.00	
					TOTAL	782.00	cum
7	Extra for vibrator used by the contractor at his own cost						
	Manhole					137.50	
	M30					140.58	
					TOTAL	278.08	cum
8	First class burnt brick work laid in cement sand mortar 1:4 in foundation and plinth.(upto 1.5m)						
					total	664.72	
	Manhole(1.2m to 2m)	27	5.72	0.23	1.5	53.28	
		27	3.09	0.345	0.23	6.62	
	Manhole(2m to 3m)	47	5.72	0.23	1.5	92.75	
		47	3.09	0.345	1	50.10	
	Manhole(3m to 5m)	63	5.72	0.23	1.5	124.32	
		63	3.09	0.345	1.5	100.74	
		63	7.84	0.46	1.18	268.10	
	Total (for sr. no. 8 & 9)					695.92	cum

QUANTITY CALCULATIONS

9	First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level.						
					total	31.20	cum
10	12.5mm th. Inside Cement plaster 1:2 (Manhole)						
	Manhole					1626.89	
	Cleanouts					69.12	
					TOTAL	1696.01	sq.m
11	Cement rendering on plaster 1mm thick						
	Manhole					1626.89	
	Cleanouts					69.12	
					TOTAL	1696.01	sq.m
12	Dismantling of bituminous courses of flexible pavements by manual means & disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per technical clauses 202 of MORT & H specifications.						
					total	256.00	cum
13	For all classes of soil except rocky (upto 3m)						
	SW line					7034.89	
	Manhole					1930.60	
	facultative tank					3906.00	
	1 st maturation					826.00	
	2 nd maturation tank					826.00	
	3 rd maturation tank					826.00	
	anearobic tank					300.00	
	Collection tank					162.00	
	Existing wastewater ponds at STP site(Lumpsum)					4581.11	
					total	20392.60	cum
14	For depth exceeding 3 metres but not exceeds 4.5m						
	SW line					926.54	
	Manhole					378.93	
	Collection tank					54.00	
					total	1359.47	
15	For depth exceeding 4.5 metres but not exceeds 6m						
	SW line					113.26	
	Manhole					38.53	
	Collection tank					54.00	
					total	205.79	
16	For depth exceeding 6 metres but not exceeds 7.5m						
	Manhole					30.53	
	Collection tank					54.00	
					TOTAL	84.53	
17	For depth exceeding 7.5 metres but not exceeds 9m						
	Collection tank					54.00	
					TOTAL	54.00	
18	SW PIPE (150mm) included all items						
	Total SW Line length					3322.00	
	Manhole(Deduction)					220.80	
						3101.20	
19	R.C.C. Manhole cover 560mm i/dextra heavy duty						
						147.00	
20	cold twisted deformed Fe415 grade as per IS 1786-1985	see page 5 & 6					
						120.42	qtl
21	M-30						
	Manhole slab					65.00	
	Slab (Collection ,screening & inlet tanks)					75.58	

QUANTITY CALCULATIONS

							140.58	
22	Room							
			17.154	10.59			181.74	sq.ft
23	Cleanouts							
		23						
24	PVC 100 dia connected with pump						28.00	
25	Pump (1 HP)						3.00	
26	Boundry Wall(PCC 1:4:8) length =400 m. approx.							
			400	0.5	0.15		30.00	cum
27	Boundry Wall(1:4 First Brick work in foundation and plinth)							
			400	1.15	0.23		105.80	cum
28	Boundary wall (First class burnt brick work laid in cement sand mortar 1:4 in first storey upto 4m above plinth level)							
			400	1.5	0.23		138.00	cum
29	Excavation(Boundry Wall upto 3 m.)							
			400	1.12	0.5		224.00	cum
30	Generator(5KW)							
		1						
31	Roads, plantation, embience etc inside STP site							
							Lumpsum	
32	Providing M.S. foot rests made of 20x20 mm square bar including fixing in manholes with 20x20x10 cm cement concrete blocks 1:2:4 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design.(137 manholes plus screen chambers & collection tanks(Lumpsum))						2400.00	
33	115 mm thick brick on edge lining in herring bone bond/zig-zag or other specified pattern in 1:3 cement sand mortar over 10mm thick cement plaster 1:3 over 12.50 mm thick cement plaster in 1:5 on sub grade.							
	On side slopes.						2205.56	sq.m
	In bed						3312.37	sq.m

Steel Required in STP			
Dia	No of bars	length	Total Lerngth
10.000	68.00	4.50	306.00
12.000	28.67	5.20	149.07
10.000	37.00	3.30	122.10
16.000	36.00	4.50	162.00
12.000	23.00	4.50	103.50
20.000	31.00	16.00	496.00
16.000	25.00	3.50	87.50
16.000	6.00	1.80	10.80
12.000	6.00	1.80	10.80
20.000	31.00	3.20	99.20
16.000	31.00	5.30	164.30
16.000	15.00	4.50	67.50
12.000	27.00	4.50	121.50
10.000	19.00	4.50	85.50
12.000	30.00	4.20	126.00
10.000	30.00	4.30	129.00
12.000	22.00	4.50	99.00
10.000	36.00	4.50	162.00
16.000	22.00	1.60	35.20
12.000	21.60	5.30	114.48
12.000	17.60	2.70	47.52
10.000	34.40	2.70	92.88
12.000	21.60	7.00	151.20
10.000	21.60	3.90	84.24
12.000	56.00	2.70	151.20
10.000	31.20	2.70	84.24
16.000	18.00	4.00	72.00
12.000	18.00	2.30	41.40
12.000	26.67	2.70	72.00
10.000	15.33	2.70	41.40
12.000	18.00	4.00	72.00
10.000	18.00	2.30	41.40
12.000	42.00	2.00	84.00
16.000	20.00	6.50	130.00
16.000	43.33	2.50	108.33
20.000	16.67	6.50	108.33
16.000	43.33	2.50	108.33
12.000	16.67	6.50	108.33
12.000	43.33	2.50	108.33
12.000	16.67	6.50	108.33
12.000	43.33	2.50	108.33
16.000	50.40	2.00	100.80
16.000	16.00	6.30	100.80
16.000	50.40	2.00	100.80
16.000	16.00	6.30	100.80
16.000	42.00	2.70	113.40
16.000	18.00	6.30	113.40
16.000	42.00	2.70	113.40
16.000	18.00	6.30	113.40

Dia of Bar	Total Length	wt of unit length	Total wt(kg)
10.000	1148.760	0.617	709.111
12.000	1777.000	0.889	1579.556
16.000	1802.767	1.580	2848.816
20.000	703.533	2.469	1737.119

Total Wt of steel in STP

6874.6024691358

kg

Wt. of steel in manhole

70.000

qtl

44.700

qtl

Total wt of steel

114.7

qtl

5% loss

5.735

qtl

Total steel

120.435

qtl

Sewerage System & Sewerage Treatment Plant at Sural Kalan, Rajpura

Case - 1 Excavation of SW Pipe

Street		Length	(U.G.L.-Bed Level)	(L.G.L.-Bed Level)	Depth (Mean)	Add Th.of PCC	Actual Depth	Width of Trench	Quantity (Excavation)	Type of Manhole	Length of Manhole	Depth			Excavation (m ³)		
from node	to node											(0-3m)	(3-4.5)m	(4.5-6m)	(0-3m)	(3-4.5)m	(4.5-6m)
1.00	2.00	37.379	1.300	1.698	1.499	0.100	1.599	0.691	41.295	S4	2.190	1.599			41.295		0.000
2.00	3.00	15.490	1.698	1.862	1.780	0.100	1.880	0.691	20.123	S4	2.190	1.880			20.123	0.000	0.000
7.00	6.00	22.568	1.037	1.317	1.177	0.100	1.277	0.691	19.916	S4	2.190	1.277			19.916	0.000	0.000
6.00	4.00	40.442	1.317	1.650	1.484	0.100	1.584	0.691	44.257	S4	2.190	1.584			44.257	0.000	0.000
5.00	4.00	18.900	1.495	1.650	1.572	0.100	1.672	0.691	21.842	S4	2.190	1.672			21.842	0.000	0.000
4.00	3.00	25.742	1.650	1.862	1.756	0.100	1.856	0.691	33.020	S4	2.190	1.856			33.020	0.000	0.000
11.00	10.00	15.208	1.403	1.592	1.498	0.100	1.598	0.691	16.788	S4	2.190	1.598			16.788	0.000	0.000
10.00	9.00	10.867	1.592	1.727	1.659	0.100	1.759	0.691	13.210	S4	2.190	1.759			13.210	0.000	0.000
9.00	8.00	30.834	1.727	2.109	1.918	0.100	2.018	0.691	42.992	S6	2.190	2.018			42.992	0.000	0.000
8.00	12.00	18.726	2.109	2.417	2.263	0.100	2.363	0.792	35.048	S6	2.190	2.363			35.048	0.000	0.000
24.00	12.00	63.039	3.686	2.417	3.052	0.100	3.152	0.792	157.360	S7	2.720	3.000	0.152		149.781	7.579	0.000
12.00	13.00	9.260	2.417	2.538	2.478	0.100	2.578	0.792	18.906	S6	2.190	2.578			18.906	0.000	0.000
13.00	14.00	19.651	2.538	2.773	2.656	0.100	2.756	0.792	42.887	S6	2.190	2.756			42.887	0.000	0.000
17.00	16.00	11.375	3.304	3.471	3.388	0.100	3.488	0.792	31.421	S7	2.720	3.000	0.488		27.027	4.394	0.000
16.00	15.00	20.151	3.471	3.757	3.614	0.100	3.714	0.792	59.278	S7	2.720	3.000	0.714		47.879	11.399	0.000
25.00	24.00	14.612	3.440	3.198	3.319	0.100	3.419	0.792	39.572	S7	2.720	3.000	0.419		34.718	4.854	0.000
24.00	26.00	10.781	3.198	2.747	2.973	0.100	3.073	0.792	26.235	S7	2.720	3.000	0.073		25.616	0.620	0.000
29.00	28.00	11.309	3.393	3.234	3.314	0.100	3.414	0.792	30.575	S7	2.720	3.000	0.414		26.871	3.705	0.000
28.00	27.00	2.928	3.234	3.112	3.173	0.100	3.273	0.792	7.589	S7	2.720	3.000	0.273		6.956	0.633	0.000
27.00	26.00	8.714	3.112	2.747	2.929	0.100	3.029	0.792	20.907	S7	2.720	3.000	0.029		20.705	0.202	0.000
26.00	30.00	25.644	2.747	1.672	2.209	0.100	2.309	0.792	46.905	S6	2.190	2.309			46.905	0.000	0.000
26-30	31.00	51.995	2.747	1.802	2.274	0.100	2.374	0.792	97.768	S6	2.190	2.374			97.768	0.000	0.000
32.00	31.00	67.966	3.964	1.802	2.883	0.100	2.983	0.792	160.577	S6	2.190	2.983			160.577	0.000	0.000
31.00	71.00	11.217	1.802	1.866	1.834	0.100	1.934	0.691	14.989	S4	2.190	1.934			14.989	0.000	0.000
37.00	76.00	41.284	1.402	1.666	1.534	0.100	1.634	0.691	46.624	S4	2.190	1.634			46.624	0.000	0.000
37.00	72.00	68.006	1.402	1.838	1.620	0.100	1.720	0.691	80.822	S4	2.190	1.720			80.822	0.000	0.000
75.00	74-72	19.625	1.981	1.838	1.909	0.100	2.009	0.691	27.246	S6	2.190	2.009			27.246	0.000	0.000
72.00	71.00	19.799	1.838	1.866	1.852	0.100	1.952	0.691	26.702	S4	2.190	1.952			26.702	0.000	0.000
71.00	70.00	63.710	1.866	2.201	2.034	0.100	2.134	0.792	107.653	S6	2.190	2.134			107.653	0.000	0.000
33.00	32.00	10.355	2.728	2.716	2.722	0.100	2.822	0.792	23.144	S6	2.190	2.822			23.144	0.000	0.000
34.00	32.00	25.247	2.746	2.716	2.731	0.100	2.831	0.792	56.607	S6	2.190	2.831			56.607	0.000	0.000
32.00	35-36	26.945	2.716	1.021	1.868	0.100	1.968	0.691	36.647	S4	2.190	1.968			36.647	0.000	0.000
38.00	36.00	54.860	3.021	1.021	2.021	0.100	2.121	0.792	92.145	S6	2.190	2.121			92.145	0.000	0.000
36.00	37.00	28.835	1.021	0.995	1.008	0.100	1.108	0.691	22.071	S5	1.360	1.108			22.071	0.000	0.000
37.00	80.00	40.134	0.995	0.905	0.950	0.100	1.050	0.691	29.110	S5	1.360	1.050			29.110	0.000	0.000
80.00	78.00	63.227	0.955	1.430	1.192	0.100	1.292	0.792	64.705	S4	2.190	1.292			64.705	0.000	0.000
79.00	78.00	17.826	1.240	1.380	1.310	0.100	1.410	0.792	19.906	S4	2.190	1.410			19.906	0.000	0.000
78.00	77.00	78.381	1.430	2.004	1.717	0.100	1.817	0.691	98.393	S4	2.190	1.817			98.393	0.000	0.000
77.00	70.00	21.594	2.004	2.251	2.127	0.100	2.227	0.792	38.093	S6	2.190	2.227			38.093	0.000	0.000
70.00	69.00	16.169	2.251	2.344	2.298	0.100	2.398	0.792	30.705	S6	2.190	2.398			30.705	0.000	0.000
95.00	69.00	95.929	1.621	2.294	1.958	0.100	2.058	0.691	136.411	S6	2.190	2.058			136.411	0.000	0.000
69.00	67.00	32.300	2.344	2.505	2.425	0.100	2.525	0.792	64.587	S6	2.190	2.525			64.587	0.000	0.000
68.00	67.00	51.065	1.736	2.455	2.096	0.100	2.196	0.792	88.796	S6	2.190	2.196			88.796	0.000	0.000
67.00	3.00	63.561	2.505	2.812	2.659	0.100	2.759	0.792	138.875	S6	2.190	2.759			138.875	0.000	0.000
3.00	14.00	95.159	2.812	3.723	3.268	0.100	3.368	0.792	253.806	S7	2.720	3.000	0.368		226.097	27.709	0.000
14.00	15.00	26.207	3.723	3.807	3.765	0.100	3.865	0.792	80.223	S7	2.720	3.000	0.865		62.268	17.955	0.000
15.00	18.00	44.372	3.807	3.951	3.879	0.100	3.979	0.792	139.829	S7	2.720	3.000	0.979		105.427	34.402	0.000
19.00	18.00	118.906	1.406	3.901	2.653	0.100	2.753	0.792	259.293	S6	2.190	2.753			259.293	0.000	0.000
38.00	20.00	86.791	5.727	4.010	4.868	0.100	4.968	0.792	341.509	S7	2.720	3.000	1.500	0.468	206.216	103.108	32.185
23.00	22.00	33.345	4.808	3.831	4.319	0.100	4.419	0.792	116.714	S7	2.720	3.000	1.419		79.227	37.486	0.000
23	22-21	43.323	4.808	3.899	4.354	0.100	4.454	0.792	152.817	S7	2.720	3.000	1.454		102.934	49.883	0.000
21	20.00	16.003	3.899	4.010	3.955	0.100	4.055	0.792	51.387	S7	2.720	3.000	1.055		38.022	13.365	0.000

Sewerage System & Sewerage Treatment Plant at Sural Kalan, Rajpura

Case - 1 Excavation of SW Pipe

Street		Length	(U.G.L.-Bed Level)	(L.G.L.-Bed Level)	Depth (Mean)	Add Th.of PCC	Actual Depth	Width of Trench	Quantity (Excavation)	Type of Manhole	Length of Manhole	Depth			Excavation (m ³)		
from node	to node											(0-3m)	(3-4.5)m	(4.5-6m)	(0-3m)	(3-4.5)m	(4.5-6m)
20	18.00	47.841	4.010	3.901	3.955	0.100	4.055	0.792	153.649	S7	2.720	3.000	1.055		113.670	39.980	0.000
18	66.00	60.754	3.951	3.633	3.792	0.100	3.892	0.792	187.265	S7	2.720	3.000	0.892		144.351	42.914	0.000
58	57.00	12.515	1.918	1.969	1.943	0.100	2.043	0.691	17.669	S6	2.190	2.043			17.669	0.000	0.000
57	59.00	5.496	1.969	2.020	1.994	0.100	2.094	0.691	7.953	S6	2.190	2.094			7.953	0.000	0.000
57-59	60.00	20.710	1.941	2.162	2.052	0.100	2.152	0.792	35.291	S6	2.190	2.152			35.291	0.000	0.000
60	61.00	38.954	2.162	2.527	2.345	0.100	2.445	0.792	75.428	S6	2.190	2.445			75.428	0.000	0.000
61	62.00	10.965	2.527	2.589	2.558	0.100	2.658	0.792	23.086	S6	2.190	2.658			23.086	0.000	0.000
63	62.00	10.410	2.492	2.589	2.540	0.100	2.640	0.792	21.769	S6	2.190	2.640			21.769	0.000	0.000
62	64.00	20.011	2.589	2.873	2.731	0.100	2.831	0.792	44.869	S6	2.190	2.831			44.869	0.000	0.000
62	64-65	23.370	2.589	2.846	2.717	0.100	2.817	0.792	52.147	S6	2.190	2.817			52.147	0.000	0.000
20	65.00	63.527	2.855	2.846	2.850	0.100	2.950	0.792	148.448	S6	2.190	2.950			148.448	0.000	0.000
65	66.00	68.827	2.846	3.583	3.214	0.100	3.314	0.792	180.666	S7	2.720	3.000	0.314		163.533	17.133	0.000
66	94.00	187.849	3.633	3.888	3.760	0.100	3.860	0.792	574.321	S7	2.720	3.000	0.860		446.329	127.993	0.000
94	93.00	31.000	3.888	4.475	4.181	0.100	4.281	0.792	105.114	S7	2.720	3.000	1.281		73.656	31.458	0.000
47	46.00	24.652	2.608	2.239	2.423	0.100	2.523	0.792	49.265	S6	2.190	2.523			49.265	0.000	0.000
44	43.00	37.983	1.100	2.644	1.872	0.100	1.972	0.691	51.761	S4	2.190	1.972			51.761	0.000	0.000
43	45 - 46	36.973	1.100	2.239	1.669	0.100	1.769	0.691	45.204	S4	2.190	1.769			45.204	0.000	0.000
46	48-49	16.579	2.239	1.991	2.115	0.100	2.215	0.792	29.079	S6	2.190	2.215			29.079	0.000	0.000
46	50.00	39.007	2.239	1.655	1.947	0.100	2.047	0.691	55.169	S6	2.190	2.047			55.169	0.000	0.000
81	50.00	22.100	1.148	1.655	1.401	0.100	1.501	0.691	22.927	S4	2.190	1.501			22.927	0.000	0.000
50	51.00	38.165	1.655	2.344	1.999	0.100	2.099	0.691	55.363	S6	2.190	2.099			55.363	0.000	0.000
82	51.00	27.739	1.568	2.344	1.956	0.100	2.056	0.691	39.411	S6	2.190	2.056			39.411	0.000	0.000
51	52.00	22.248	2.344	2.493	2.418	0.100	2.518	0.792	44.376	S6	2.190	2.518			44.376	0.000	0.000
38	39.00	15.134	4.642	4.321	4.481	0.100	4.581	0.868	60.180	S7	2.720	3.000	1.500	0.081	39.409	19.704	1.067
39	40-41	21.567	4.321	3.863	4.092	0.100	4.192	0.792	71.604	S7	2.720	3.000	1.192		51.242	20.362	0.000
42	41.00	14.330	3.782	3.863	3.823	0.100	3.923	0.792	44.517	S7	2.720	3.000	0.923		34.047	10.470	0.000
41	43.00	30.471	3.863	2.633	3.248	0.100	3.348	0.792	80.806	S7	2.720	3.000	0.348		72.398	8.408	0.000
44	43.00	37.983	2.691	2.633	2.662	0.100	2.762	0.792	83.093	S6	2.190	2.762			83.093	0.000	0.000
43	52.00	30.176	2.633	2.493	2.563	0.100	2.663	0.792	63.649	S6	2.190	2.663			63.649	0.000	0.000
52	53.00	21.409	2.493	2.412	2.453	0.100	2.553	0.792	43.283	S6	2.190	2.553			43.283	0.000	0.000
83	53.00	52.588	1.571	2.412	1.992	0.100	2.092	0.691	76.008	S6	2.190	2.092			76.008	0.000	0.000
53	54.00	25.831	2.412	2.327	2.370	0.100	2.470	0.792	50.521	S6	2.190	2.470			50.521	0.000	0.000
57	56.00	19.340	2.267	1.902	2.084	0.100	2.184	0.792	33.458	S6	2.190	2.184			33.458	0.000	0.000
56	55.00	14.939	2.546	1.858	2.202	0.100	2.302	0.792	27.233	S6	2.190	2.302			27.233	0.000	0.000
55	54.00	21.488	1.858	2.327	2.092	0.100	2.192	0.792	37.308	S6	2.190	2.192			37.308	0.000	0.000
54	85.00	73.012	2.327	2.872	2.600	0.100	2.700	0.792	156.107	S6	2.190	2.700			156.107	0.000	0.000
85	86.00	39.150	2.922	3.115	3.019	0.100	3.119	0.792	96.698	S7	2.720	3.000	0.119		93.020	3.678	0.000
55	86.00	79.943	1.858	3.056	2.457	0.100	2.557	0.792	161.872	S6	2.190	2.557			161.872	0.000	0.000
86	87.00	89.514	3.115	4.107	3.611	0.100	3.711	0.792	263.094	S7	2.720	3.000	0.711	0.000	212.685	50.409	0.000
87 TO 93	The excavation depth is added for about 300 m length from node 87 to 93, which was not mention in topographical map.														720.000	360.000	50.000
LENGTH		3322.300	METRES						EXCAVATION	8074.683		211.410			7034.883	926.540	113.260
															(0-3m)	(3-4.5)m	(4.5-6m)

Quantities of Manhole

ACTUAL DEPTH	ADD DEPTH	FINAL DEPTH FOR EXCAVATION	LENGTH OF MANHOLE	WIDTH OF MANHOLE	INTERNAL LENGTH	INTERNAL WIDTH	QUANTITY	Depth					Excavation				
							(EXCAVATION)	0-3 m	3-4.5 m	4.5-6 m	6-7.5 m	7.5-9 m	0-3 m	3-4.5 m	4.5-6 m	6-7.5 m	7.5-9 m
1.300	0.340	1.640	2.360	1.730	1.500	0.900	6.696	1.640	0.000	0.000	0.000	0.000	6.696	0.000	0.000	0.000	0.000
1.698	0.340	2.038	2.360	1.730	1.500	0.900	8.319	2.038	0.000	0.000	0.000	0.000	8.319	0.000	0.000	0.000	0.000
1.037	0.340	1.377	1.760	1.430	0.900	0.600	3.466	1.377	0.000	0.000	0.000	0.000	3.466	0.000	0.000	0.000	0.000
1.317	0.340	1.657	2.360	1.730	1.500	0.900	6.765	1.657	0.000	0.000	0.000	0.000	6.765	0.000	0.000	0.000	0.000
1.495	0.340	1.835	2.360	1.730	1.500	0.900	7.490	1.835	0.000	0.000	0.000	0.000	7.490	0.000	0.000	0.000	0.000
1.650	0.340	1.990	2.360	1.730	1.500	0.900	8.126	1.990	0.000	0.000	0.000	0.000	8.126	0.000	0.000	0.000	0.000
1.403	0.340	1.743	2.360	1.730	1.500	0.900	7.117	1.743	0.000	0.000	0.000	0.000	7.117	0.000	0.000	0.000	0.000
1.592	0.340	1.932	2.360	1.730	1.500	0.900	7.887	1.932	0.000	0.000	0.000	0.000	7.887	0.000	0.000	0.000	0.000
1.727	0.340	2.067	2.360	1.730	1.500	0.900	8.438	2.067	0.000	0.000	0.000	0.000	8.438	0.000	0.000	0.000	0.000
2.109	0.340	2.449	2.360	1.730	1.500	0.900	9.999	2.449	0.000	0.000	0.000	0.000	9.999	0.000	0.000	0.000	0.000
3.686	0.340	4.026	3.120	2.520	1.800	1.200	31.656	3.000	1.026	0.000	0.000	0.000	23.587	8.068	0.000	0.000	0.000
2.417	0.340	2.757	2.360	1.730	1.500	0.900	11.258	2.757	0.000	0.000	0.000	0.000	11.258	0.000	0.000	0.000	0.000
2.538	0.340	2.878	2.360	1.730	1.500	0.900	11.751	2.878	0.000	0.000	0.000	0.000	11.751	0.000	0.000	0.000	0.000
3.304	0.340	3.644	3.120	2.520	1.800	1.200	28.651	3.000	0.644	0.000	0.000	0.000	23.587	5.064	0.000	0.000	0.000
3.471	0.340	3.811	3.120	2.520	1.800	1.200	29.966	3.000	0.811	0.000	0.000	0.000	23.587	6.379	0.000	0.000	0.000
3.440	0.340	3.780	3.120	2.520	1.800	1.200	29.724	3.000	0.780	0.000	0.000	0.000	23.587	6.136	0.000	0.000	0.000
3.198	0.340	3.538	3.120	2.520	1.800	1.200	27.820	3.000	0.538	0.000	0.000	0.000	23.587	4.233	0.000	0.000	0.000
3.393	0.340	3.733	3.120	2.520	1.800	1.200	29.348	3.000	0.733	0.000	0.000	0.000	23.587	5.761	0.000	0.000	0.000
3.234	0.340	3.574	3.120	2.520	1.800	1.200	28.104	3.000	0.574	0.000	0.000	0.000	23.587	4.517	0.000	0.000	0.000
3.112	0.340	3.452	3.120	2.520	1.800	1.200	27.140	3.000	0.452	0.000	0.000	0.000	23.587	3.552	0.000	0.000	0.000
2.747	0.340	3.087	2.360	1.730	1.500	0.900	12.602	3.000	0.087	0.000	0.000	0.000	12.248	0.354	0.000	0.000	0.000
2.747	0.340	3.087	2.360	1.730	1.500	0.900	12.602	3.000	0.087	0.000	0.000	0.000	12.248	0.354	0.000	0.000	0.000
3.964	0.340	4.304	3.120	2.520	1.800	1.200	33.844	3.000	1.304	0.000	0.000	0.000	23.587	10.256	0.000	0.000	0.000
1.802	0.340	2.142	2.360	1.730	1.500	0.900	8.744	2.142	0.000	0.000	0.000	0.000	8.744	0.000	0.000	0.000	0.000
1.402	0.340	1.742	2.360	1.730	1.500	0.900	7.113	1.742	0.000	0.000	0.000	0.000	7.113	0.000	0.000	0.000	0.000
1.402	0.340	1.742	2.360	1.730	1.500	0.900	7.113	1.742	0.000	0.000	0.000	0.000	7.113	0.000	0.000	0.000	0.000
1.981	0.340	2.321	2.360	1.730	1.500	0.900	9.475	2.321	0.000	0.000	0.000	0.000	9.475	0.000	0.000	0.000	0.000
1.838	0.340	2.178	2.360	1.730	1.500	0.900	8.890	2.178	0.000	0.000	0.000	0.000	8.890	0.000	0.000	0.000	0.000
1.866	0.340	2.206	2.360	1.730	1.500	0.900	9.006	2.206	0.000	0.000	0.000	0.000	9.006	0.000	0.000	0.000	0.000
2.728	0.340	3.068	2.360	1.730	1.500	0.900	12.527	3.000	0.068	0.000	0.000	0.000	12.248	0.279	0.000	0.000	0.000
2.746	0.340	3.086	2.360	1.730	1.500	0.900	12.601	3.000	0.086	0.000	0.000	0.000	12.248	0.352	0.000	0.000	0.000
2.716	0.340	3.056	2.360	1.730	1.500	0.900	12.476	3.000	0.056	0.000	0.000	0.000	12.248	0.228	0.000	0.000	0.000
3.021	0.340	3.361	3.120	2.520	1.800	1.200	26.424	3.000	0.361	0.000	0.000	0.000	23.587	2.836	0.000	0.000	0.000
1.021	0.340	1.361	1.760	1.430	0.900	0.600	3.425	1.361	0.000	0.000	0.000	0.000	3.425	0.000	0.000	0.000	0.000
0.995	0.340	1.335	1.760	1.430	0.900	0.600	3.359	1.335	0.000	0.000	0.000	0.000	3.359	0.000	0.000	0.000	0.000
0.955	0.340	1.295	1.760	1.430	0.900	0.600	3.258	1.295	0.000	0.000	0.000	0.000	3.258	0.000	0.000	0.000	0.000
1.240	0.340	1.580	2.360	1.730	1.500	0.900	6.452	1.580	0.000	0.000	0.000	0.000	6.452	0.000	0.000	0.000	0.000
1.430	0.340	1.770	2.360	1.730	1.500	0.900	7.225	1.770	0.000	0.000	0.000	0.000	7.225	0.000	0.000	0.000	0.000
2.004	0.340	2.344	2.360	1.730	1.500	0.900	9.569	2.344	0.000	0.000	0.000	0.000	9.569	0.000	0.000	0.000	0.000
2.251	0.340	2.591	2.360	1.730	1.500	0.900	10.579	2.591	0.000	0.000	0.000	0.000	10.579	0.000	0.000	0.000	0.000
1.621	0.340	1.961	2.360	1.730	1.500	0.900	8.008	1.961	0.000	0.000	0.000	0.000	8.008	0.000	0.000	0.000	0.000
2.344	0.340	2.684	2.360	1.730	1.500	0.900	10.960	2.684	0.000	0.000	0.000	0.000	10.960	0.000	0.000	0.000	0.000
1.736	0.340	2.076	2.360	1.730	1.500	0.900	8.476	2.076	0.000	0.000	0.000	0.000	8.476	0.000	0.000	0.000	0.000
2.505	0.340	2.845	2.360	1.730	1.500	0.900	11.616	2.845	0.000	0.000	0.000	0.000	11.616	0.000	0.000	0.000	0.000
2.812	0.340	3.152	2.360	1.730	1.500	0.900	12.871	3.000	0.152	0.000	0.000	0.000	12.248	0.622	0.000	0.000	0.000
3.723	0.340	4.063	3.120	2.520	1.800	1.200	31.944	3.000	1.063	0.000	0.000	0.000	23.587	8.357	0.000	0.000	0.000

3.807	0.340	4.147	3.120	2.520	1.800	1.200	32.607	3.000	1.147	0.000	0.000	0.000	23.587	9.020	0.000	0.000	0.000
1.406	0.340	1.746	2.360	1.730	1.500	0.900	7.129	1.746	0.000	0.000	0.000	0.000	7.129	0.000	0.000	0.000	0.000
6.620	0.340	6.960	3.120	2.520	1.800	1.200	54.722	3.000	1.500	1.500	0.960	0.000	23.587	11.794	11.794	7.548	0.000
6.430	0.340	6.770	3.120	2.520	1.800	1.200	53.228	3.000	1.500	1.500	0.770	0.000	23.587	11.794	11.794	6.054	0.000
4.520	0.340	4.860	3.120	2.520	1.800	1.200	38.211	3.000	1.500	0.360	0.000	0.000	23.587	11.794	2.830	0.000	0.000
3.899	0.340	4.239	3.120	2.520	1.800	1.200	33.332	3.000	1.239	0.000	0.000	0.000	23.587	9.745	0.000	0.000	0.000
4.010	0.340	4.350	3.120	2.520	1.800	1.200	34.199	3.000	1.350	0.000	0.000	0.000	23.587	10.612	0.000	0.000	0.000
3.951	0.340	4.291	3.120	2.520	1.800	1.200	33.735	3.000	1.291	0.000	0.000	0.000	23.587	10.147	0.000	0.000	0.000
1.918	0.340	2.258	2.360	1.730	1.500	0.900	9.218	2.258	0.000	0.000	0.000	0.000	9.218	0.000	0.000	0.000	0.000
1.969	0.340	2.309	2.360	1.730	1.500	0.900	9.425	2.309	0.000	0.000	0.000	0.000	9.425	0.000	0.000	0.000	0.000
1.941	0.340	2.281	2.360	1.730	1.500	0.900	9.311	2.281	0.000	0.000	0.000	0.000	9.311	0.000	0.000	0.000	0.000
2.162	0.340	2.502	2.360	1.730	1.500	0.900	10.217	2.502	0.000	0.000	0.000	0.000	10.217	0.000	0.000	0.000	0.000
2.527	0.340	2.867	2.360	1.730	1.500	0.900	11.707	2.867	0.000	0.000	0.000	0.000	11.707	0.000	0.000	0.000	0.000
2.492	0.340	2.832	2.360	1.730	1.500	0.900	11.561	2.832	0.000	0.000	0.000	0.000	11.561	0.000	0.000	0.000	0.000
2.589	0.340	2.929	2.360	1.730	1.500	0.900	11.959	2.929	0.000	0.000	0.000	0.000	11.959	0.000	0.000	0.000	0.000
2.589	0.340	2.929	2.360	1.730	1.500	0.900	11.959	2.929	0.000	0.000	0.000	0.000	11.959	0.000	0.000	0.000	0.000
2.855	0.340	3.195	2.360	1.730	1.500	0.900	13.046	3.000	0.195	0.000	0.000	0.000	12.248	0.798	0.000	0.000	0.000
2.846	0.340	3.186	2.360	1.730	1.500	0.900	13.006	3.000	0.186	0.000	0.000	0.000	12.248	0.757	0.000	0.000	0.000
3.633	0.340	3.973	3.120	2.520	1.800	1.200	31.238	3.000	0.973	0.000	0.000	0.000	23.587	7.651	0.000	0.000	0.000
3.888	0.340	4.228	3.120	2.520	1.800	1.200	33.238	3.000	1.228	0.000	0.000	0.000	23.587	9.651	0.000	0.000	0.000
2.608	0.340	2.948	2.360	1.730	1.500	0.900	12.035	2.948	0.000	0.000	0.000	0.000	12.035	0.000	0.000	0.000	0.000
1.100	0.340	1.440	1.760	1.430	0.900	0.600	3.624	1.440	0.000	0.000	0.000	0.000	3.624	0.000	0.000	0.000	0.000
1.100	0.340	1.440	1.760	1.430	0.900	0.600	3.624	1.440	0.000	0.000	0.000	0.000	3.624	0.000	0.000	0.000	0.000
2.239	0.340	2.579	2.360	1.730	1.500	0.900	10.528	2.579	0.000	0.000	0.000	0.000	10.528	0.000	0.000	0.000	0.000
2.239	0.340	2.579	2.360	1.730	1.500	0.900	10.528	2.579	0.000	0.000	0.000	0.000	10.528	0.000	0.000	0.000	0.000
1.148	0.340	1.488	1.760	1.430	0.900	0.600	3.745	1.488	0.000	0.000	0.000	0.000	3.745	0.000	0.000	0.000	0.000
1.655	0.340	1.995	2.360	1.730	1.500	0.900	8.145	1.995	0.000	0.000	0.000	0.000	8.145	0.000	0.000	0.000	0.000
1.568	0.340	1.908	2.360	1.730	1.500	0.900	7.791	1.908	0.000	0.000	0.000	0.000	7.791	0.000	0.000	0.000	0.000
2.344	0.340	2.684	2.360	1.730	1.500	0.900	10.957	2.684	0.000	0.000	0.000	0.000	10.957	0.000	0.000	0.000	0.000
4.300	0.340	4.640	3.120	2.520	1.800	1.200	36.482	3.000	1.500	0.140	0.000	0.000	23.587	11.794	1.101	0.000	0.000
4.200	0.340	4.540	3.120	2.520	1.800	1.200	35.695	3.000	1.500	0.040	0.000	0.000	23.587	11.794	0.314	0.000	0.000
3.782	0.340	4.122	3.120	2.520	1.800	1.200	32.406	3.000	1.122	0.000	0.000	0.000	23.587	8.819	0.000	0.000	0.000
3.863	0.340	4.203	3.120	2.520	1.800	1.200	33.049	3.000	1.203	0.000	0.000	0.000	23.587	9.462	0.000	0.000	0.000
2.691	0.340	3.031	2.360	1.730	1.500	0.900	12.375	3.000	0.031	0.000	0.000	0.000	12.248	0.127	0.000	0.000	0.000
2.633	0.340	2.973	2.360	1.730	1.500	0.900	12.140	2.973	0.000	0.000	0.000	0.000	12.140	0.000	0.000	0.000	0.000
2.493	0.340	2.833	2.360	1.730	1.500	0.900	11.566	2.833	0.000	0.000	0.000	0.000	11.566	0.000	0.000	0.000	0.000
1.571	0.340	1.911	2.360	1.730	1.500	0.900	7.803	1.911	0.000	0.000	0.000	0.000	7.803	0.000	0.000	0.000	0.000
2.412	0.340	2.752	2.360	1.730	1.500	0.900	11.237	2.752	0.000	0.000	0.000	0.000	11.237	0.000	0.000	0.000	0.000
2.267	0.340	2.607	2.360	1.730	1.500	0.900	10.643	2.607	0.000	0.000	0.000	0.000	10.643	0.000	0.000	0.000	0.000
2.546	0.340	2.886	2.360	1.730	1.500	0.900	11.783	2.886	0.000	0.000	0.000	0.000	11.783	0.000	0.000	0.000	0.000
1.858	0.340	2.198	2.360	1.730	1.500	0.900	8.972	2.198	0.000	0.000	0.000	0.000	8.972	0.000	0.000	0.000	0.000
2.327	0.340	2.667	2.360	1.730	1.500	0.900	10.888	2.667	0.000	0.000	0.000	0.000	10.888	0.000	0.000	0.000	0.000
2.922	0.340	3.262	2.360	1.730	1.500	0.900	13.320	3.000	0.262	0.000	0.000	0.000	12.248	1.071	0.000	0.000	0.000
1.858	0.340	2.198	2.360	1.730	1.500	0.900	8.972	2.198	0.000	0.000	0.000	0.000	8.972	0.000	0.000	0.000	0.000
3.115	0.340	3.455	3.120	2.520	1.800	1.200	27.163	3.000	0.455	0.000	0.000	0.000	23.587	3.576	0.000	0.000	0.000
2.956	0.340	3.296	2.360	1.730	1.500	0.900	13.457	3.000	0.296	0.000	0.000	0.000	12.248	1.208	0.000	0.000	0.000
3.243	0.340	3.583	3.120	2.520	1.800	1.200	28.171	3.000	0.583	0.000	0.000	0.000	23.587	4.584	0.000	0.000	0.000
1.583	0.340	1.923	2.360	1.730	1.500	0.900	7.852	1.923	0.000	0.000	0.000	0.000	7.852	0.000	0.000	0.000	0.000
3.460	0.340	3.800	3.120	2.520	1.800	1.200	29.879	3.000	0.800	0.000	0.000	0.000	23.587	6.292	0.000	0.000	0.000
3.069	0.340	3.409	3.120	2.520	1.800	1.200	26.803	3.000	0.409	0.000	0.000	0.000	23.587	3.216	0.000	0.000	0.000

2.601	0.340	2.941	2.360	1.730	1.500	0.900	12.007	2.941	0.000	0.000	0.000	0.000	12.007	0.000	0.000	0.000	0.000
3.322	0.340	3.662	3.120	2.520	1.800	1.200	28.793	3.000	0.662	0.000	0.000	0.000	23.587	5.206	0.000	0.000	0.000
2.323	0.340	2.663	2.360	1.730	1.500	0.900	10.873	2.663	0.000	0.000	0.000	0.000	10.873	0.000	0.000	0.000	0.000
1.554	0.340	1.894	2.360	1.730	1.500	0.900	7.731	1.894	0.000	0.000	0.000	0.000	7.731	0.000	0.000	0.000	0.000
2.122	0.340	2.462	2.360	1.730	1.500	0.900	10.053	2.462	0.000	0.000	0.000	0.000	10.053	0.000	0.000	0.000	0.000
2.490	0.340	2.830	2.360	1.730	1.500	0.900	11.555	2.830	0.000	0.000	0.000	0.000	11.555	0.000	0.000	0.000	0.000
	0.340	0.340	1.760	1.430	0.900	0.600	0.856	0.340	0.000	0.000	0.000	0.000	0.856	0.000	0.000	0.000	0.000
1.288	0.340	1.628	2.360	1.730	1.500	0.900	6.648	1.628	0.000	0.000	0.000	0.000	6.648	0.000	0.000	0.000	0.000
1.441	0.340	1.781	2.360	1.730	1.500	0.900	7.271	1.781	0.000	0.000	0.000	0.000	7.271	0.000	0.000	0.000	0.000
1.544	0.340	1.884	2.360	1.730	1.500	0.900	7.692	1.884	0.000	0.000	0.000	0.000	7.692	0.000	0.000	0.000	0.000
1.727	0.340	2.067	2.360	1.730	1.500	0.900	8.437	2.067	0.000	0.000	0.000	0.000	8.437	0.000	0.000	0.000	0.000
1.937	0.340	2.277	2.360	1.730	1.500	0.900	9.297	2.277	0.000	0.000	0.000	0.000	9.297	0.000	0.000	0.000	0.000
2.361	0.340	2.701	2.360	1.730	1.500	0.900	11.026	2.701	0.000	0.000	0.000	0.000	11.026	0.000	0.000	0.000	0.000
2.578	0.340	2.918	2.360	1.730	1.500	0.900	11.912	2.918	0.000	0.000	0.000	0.000	11.912	0.000	0.000	0.000	0.000
1.721	0.340	2.061	2.360	1.730	1.500	0.900	8.414	2.061	0.000	0.000	0.000	0.000	8.414	0.000	0.000	0.000	0.000
2.325	0.340	2.665	2.360	1.730	1.500	0.900	10.880	2.665	0.000	0.000	0.000	0.000	10.880	0.000	0.000	0.000	0.000
2.929	0.340	3.269	2.360	1.730	1.500	0.900	13.347	3.000	0.269	0.000	0.000	0.000	12.248	1.099	0.000	0.000	0.000
6.460	0.340	6.800	3.120	2.520	1.800	1.200	53.464	3.000	1.500	1.500	0.800	0.000	23.587	11.794	11.794	6.290	0.000
6.260	0.340	6.600	3.120	2.520	1.800	1.200	51.892	3.000	1.500	1.500	0.600	0.000	23.587	11.794	11.794	4.717	0.000
6.230	0.340	6.570	3.120	2.520	1.800	1.200	51.656	3.000	1.500	1.500	0.570	0.000	23.587	11.794	11.794	4.482	0.000
3.853	0.340	4.193	3.120	2.520	1.800	1.200	32.967	3.000	1.193	0.000	0.000	0.000	23.587	9.380	0.000	0.000	0.000
2.848	0.340	3.188	2.360	1.730	1.500	0.900	13.015	3.000	0.188	0.000	0.000	0.000	12.248	0.767	0.000	0.000	0.000
3.033	0.340	3.373	3.120	2.520	1.800	1.200	26.520	3.000	0.373	0.000	0.000	0.000	23.587	2.933	0.000	0.000	0.000
3.653	0.340	3.993	3.120	2.520	1.800	1.200	31.398	3.000	0.993	0.000	0.000	0.000	23.587	7.811	0.000	0.000	0.000
3.694	0.340	4.034	3.120	2.520	1.800	1.200	31.717	3.000	1.034	0.000	0.000	0.000	23.587	8.130	0.000	0.000	0.000
3.735	0.340	4.075	3.120	2.520	1.800	1.200	32.037	3.000	1.075	0.000	0.000	0.000	23.587	8.450	0.000	0.000	0.000
3.775	0.340	4.115	3.120	2.520	1.800	1.200	32.356	3.000	1.115	0.000	0.000	0.000	23.587	8.769	0.000	0.000	0.000
3.816	0.340	4.156	3.120	2.520	1.800	1.200	32.676	3.000	1.156	0.000	0.000	0.000	23.587	9.088	0.000	0.000	0.000
3.855	0.340	4.195	3.120	2.520	1.800	1.200	32.982	3.000	1.195	0.000	0.000	0.000	23.587	9.395	0.000	0.000	0.000
3.938	0.340	4.278	3.120	2.520	1.800	1.200	33.636	3.000	1.278	0.000	0.000	0.000	23.587	10.049	0.000	0.000	0.000
1.814	0.340	2.154	2.360	1.730	1.500	0.900	8.796	2.154	0.000	0.000	0.000	0.000	8.796	0.000	0.000	0.000	0.000
2.172	0.340	2.512	2.360	1.730	1.500	0.900	10.257	2.512	0.000	0.000	0.000	0.000	10.257	0.000	0.000	0.000	0.000
2.954	0.340	3.294	2.360	1.730	1.500	0.900	13.448	3.000	0.294	0.000	0.000	0.000	12.248	1.200	0.000	0.000	0.000
3.083	0.340	3.423	3.120	2.520	1.800	1.200	26.911	3.000	0.423	0.000	0.000	0.000	23.587	3.324	0.000	0.000	0.000
2.662	0.340	3.002	2.360	1.730	1.500	0.900	12.258	3.000	0.002	0.000	0.000	0.000	12.248	0.010	0.000	0.000	0.000
2.877	0.340	3.217	2.360	1.730	1.500	0.900	13.135	3.000	0.217	0.000	0.000	0.000	12.248	0.886	0.000	0.000	0.000
3.281	0.340	3.621	3.120	2.520	1.800	1.200	28.471	3.000	0.621	0.000	0.000	0.000	23.587	4.884	0.000	0.000	0.000
3.614	0.340	3.954	3.120	2.520	1.800	1.200	31.086	3.000	0.954	0.000	0.000	0.000	23.587	7.499	0.000	0.000	0.000
4.128	0.340	4.468	3.120	2.520	1.800	1.200	35.127	3.000	1.468	0.000	0.000	0.000	23.587	11.540	0.000	0.000	0.000
4.734	0.340	5.074	3.120	2.520	1.800	1.200	39.895	3.000	1.500	0.574	0.000	0.000	23.587	11.794	4.515	0.000	0.000
			340.920			QUANTITY	2378.590						1930.600	378.930	38.530	30.530	0.000
ACTUAL DEPTH	ADD DEPTH	FINAL DEPTH	LENGTH OF	WIDTH OF	INTERNAL LENGTH	Internal Width	(EXCAVATION)	0-3 m	3-4.5 m	4.5-6 m	6-7.5 m	7.5-9 m	0-3 m	3-4.5 m	4.5-6 m	6-7.5 m	7.5-9 m