

Annex 7: Table of leveling accuracy

ACCURACY OF LEVELING

root name (main)	distance km	going mm	backing mm	error mm	limit mm
A083-BM 1	5.8	0.585	-0.596	-0.011	0.120
BM 1-BM 2	9.3	-2.833	2.789	-0.044	0.152
BM 2-BM 3	6.0	21.671	-21.645	0.026	0.122
BM 3-BM 4	5.9	-18.189	18.269	0.080	0.121
BM 4-TBM4/9	9.4	24.126	-24.027	0.099	0.153
TBM4/9-GPS9907	5.3	-2.729	2.775	0.046	0.115
GPS9907-GPS9908	5.5	-17.336	17.336	0.000	0.117
GPS9908-TBM5/10	5.9	15.663	-15.611	0.052	0.121
TBM5/10-TBM5/13	0.8	-17.395	17.412	0.017	0.045
TBM5/13-GPS9910	1.0	-0.673	0.632	-0.041	0.050
GPS9910-TBM11/4	1.5	-0.816	0.825	0.009	0.061
TBM11/4-A097	0.2	0.841	-0.842	-0.001	0.022

misclosure -0.087

limit 0.376

distance 56.6 km

root name	distance	going	backing	error	limit
GPS9910-TBM7/1	1.5	-0.959	0.928	-0.031	0.061
TBM7/1-A098	19.5	14.591	-14.575	0.016	0.221

misclosure -0.048

limit 0.229

distance 21.0 km

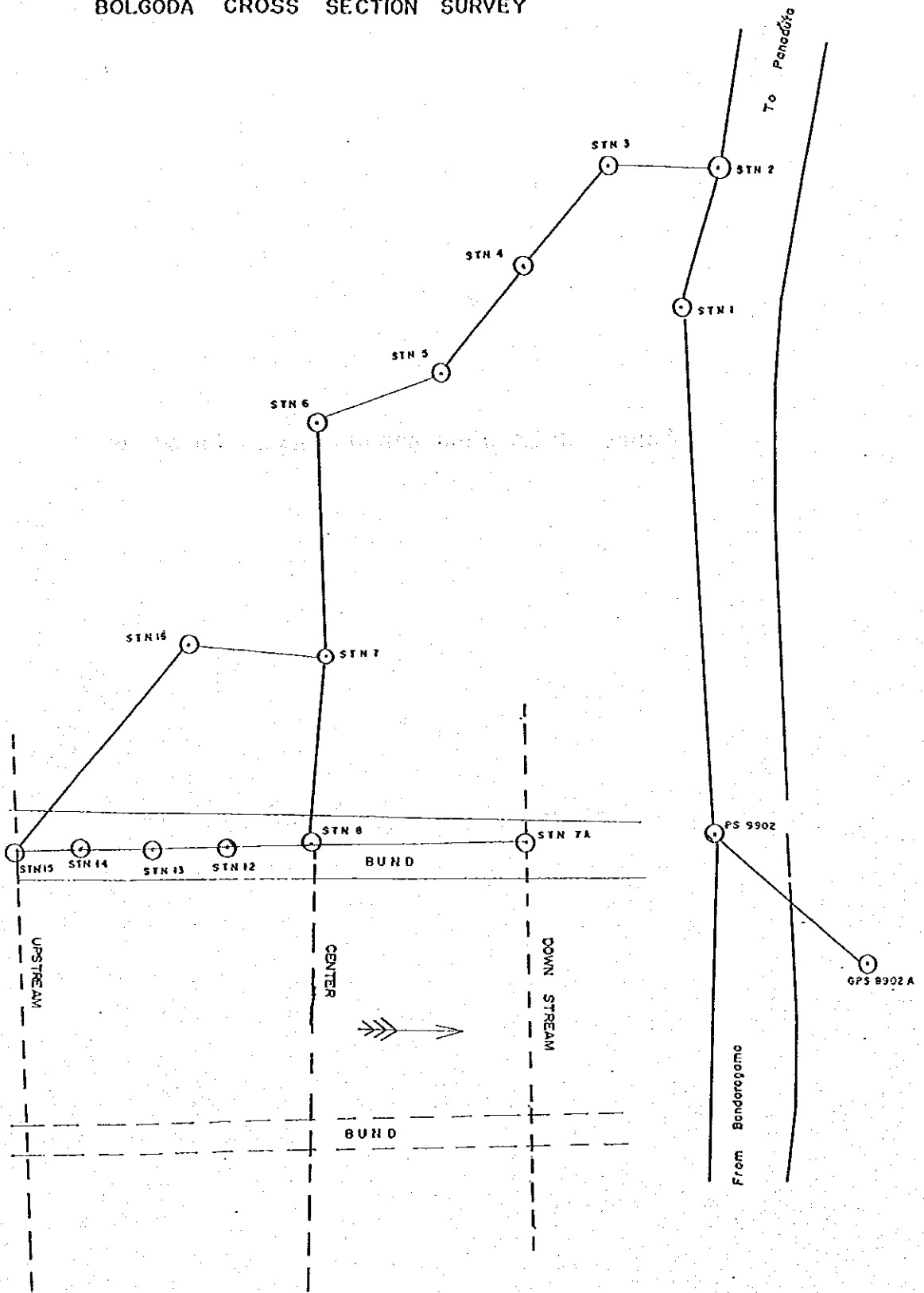
root name (branch)	distance km	going mm	backing mm	error mm	limit mm
BM 1-GPS9901	0.9	0.377	-0.373	0.004	0.047
TBM1/4-TBM1/6	1.6	1.310	-1.316	-0.006	0.063
TBM1/5-GPS9902	0.5	2.935	-2.937	-0.002	0.035
BM2-GPS9903	1.5	0.326	-0.371	-0.045	0.061
TBM3/2-GPS9904	1.7	14.178	-14.168	0.010	0.065
BM4-GPS9905	2.1	-17.618	17.609	-0.009	0.072
TBM4/4-GPS9906	1.4	-11.148	11.152	0.004	0.059
TBM4/9-BM5	1.5	16.503	-16.488	0.015	0.061
TBM5/10-GPS9909	0.4	9.427	-9.461	-0.034	0.032
TBM5/13-BM6	1.5	1.305	-1.298	0.007	0.061
TBM7/1-BM7	0.8	-0.160	0.151	-0.009	0.045
TBM7/10-BM8	0.6	-7.085	7.106	0.021	0.039
BM8-GPS9912	0.3	2.956	-2.958	-0.002	0.027
TBM8/4-GPS9913	0.8	1.570	-1.576	-0.006	0.045
BM7-TEMP TBM	0.2	0.017	-0.057	-0.040	0.022
BM8-PT8B	0.3	-4.721	4.733	0.012	0.027
BM9-PT9B	0.3	2.963	-2.989	-0.026	0.027
BM10-PT10/3	0.2	-1.345	1.336	-0.009	0.022
BM10-PT1/10	0.1	-0.095	0.101	0.006	0.016

distance 16.7 km

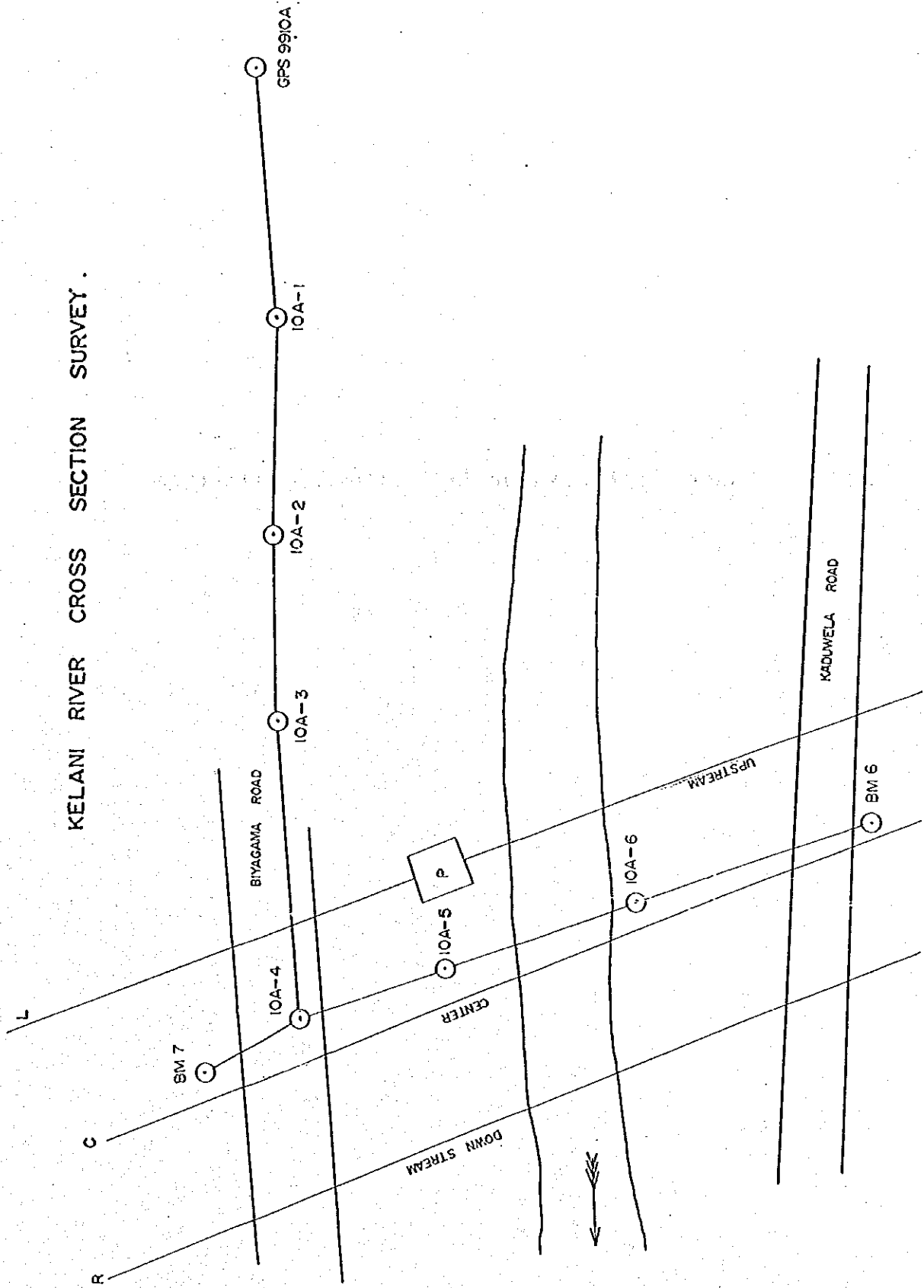
total distance 94.3 km

Annex 8: Location map of cross section survey

BOLGODA CROSS SECTION SURVEY



KELANI RIVER CROSS SECTION SURVEY .



Annex 9: Observation sheet of cross section survey

Data of Cross Section

BOLGODA GANGA CROSS SECTION

CENTER STREAM CROSS SECTION					
northing	casting	distance	elevation		
166744.518	111223.747		0.272	SH	LEFT
166742.825	111237.721	14.076	0.394	SH	
166740.207	111258.384	20.828	0.425	BA	
166738.337	111271.832	13.577	-0.376	BE	
166738.202	111275.129	3.300	0.919	BA	
166734.828	111296.968	22.098	0.858	BA	
166745.763	111299.428	11.208	0.733	BP2	BH=13
166734.442	111300.814	11.406	0.039	BE	
166733.868	111305.175	4.399	-0.142	BE	
166731.517	111321.887	16.877	0.154	BE	
166731.353	111323.129	1.253	0.742	BA	
166731.062	111324.868	1.763	0.803	SH	
166730.939	111327.001	2.137	1.031	BP1	
166730.933	111327.345	0.344	1.074	BA	
166730.675	111329.242	1.914	0.312	BE	
166730.500	111330.305	1.077	0.731	BA	
166729.985	111332.897	2.643	0.799	STN8	
166729.659	111335.798	2.919	0.865	BA	
166729.754	111337.275	1.480	-0.445	BO	
166726.821	111356.501	19.448	-0.860	SHW	
166725.205	111369.343	12.943	-1.903	SHW	
166723.198	111386.584	17.357	-2.120	SHW	
166721.271	111396.489	10.091	-2.156	SHW	
166719.529	111411.904	15.513	-0.950	SHW	
166719.180	111413.052	1.200	0.758	BA	
166718.796	111416.092	3.064	0.796	BA	
166718.191	111423.142	7.076	0.361	SH	
166717.257	111430.211	7.130	0.127	SH	
166715.897	111440.272	10.153	0.415	SH	
166714.310	111452.361	12.193	0.429	SH	
166714.139	111454.027	1.675	0.841	SH	
166713.835	111455.690	1.691	0.402	SH	
166712.748	111464.683	9.058	0.403	SH	
166710.920	111479.188	14.620	0.389	SH	
166709.225	111491.550	12.478	0.385	SH	
166707.494	111505.340	13.898	0.326	SH	
166705.923	111516.461	11.231	0.286	SH	RIGHT

BOLGODA GANGA CROSS SECTION

UP STREAM CROSS SECTION

northing	casting	distance	elevation		
166734.510	111199.280		0.110	SH	LEFT
166723.620	111208.031	13.970	0.142	SH	
166713.709	111215.297	12.289	0.207	SH	
166702.965	111223.631	13.597	0.183	SH	
166690.423	111233.382	15.887	0.090	SH	
166678.562	111241.538	14.395	0.050	SH	
166669.990	111248.669	11.150	-0.110	SH	
166662.845	111254.139	8.998	0.421	SH	
166656.927	111258.695	7.469	0.529	BU	
166655.137	111259.953	2.188	0.802	BU	
166653.994	111260.994	1.546	0.969	STN15	
166652.081	111262.586	2.489	0.562	BU	
166650.478	111263.596	1.895	-1.681	BE	
166643.282	111268.605	8.768	-1.800	BU	
166641.925	111270.262	2.142	0.410	BA	
166635.177	111275.375	8.466	0.246	BA	
166628.786	111280.694	8.315	0.024	BA	
166627.251	111281.503	1.735	-1.054	BE	
166611.233	111294.768	20.798	-1.593	SHW	
166605.329	111297.931	6.698	-1.196	SHW	
166597.124	111304.983	10.819	-1.107	SHW	
166580.151	111317.439	21.053	-0.955	SHW	
166574.878	111321.989	6.965	-0.718	SHW	
166571.498	111324.293	4.091	0.270	BA	
166563.402	111330.375	10.126	0.613	SH	
166553.192	111338.275	12.909	0.438	SH	
166539.207	111349.128	17.702	0.510	SH	
166520.141	111363.670	23.979	0.372	SH	
166507.963	111373.141	15.427	0.756	SH	
166504.952	111375.317	3.715	0.505	SH	
166504.035	111376.112	1.214	-0.693	SH	
166491.030	111386.207	16.463	-0.303	BE	
166472.107	111400.823	23.910	-0.389	BE	
166460.647	111409.469	14.356	-1.700	BE	RIGHT

BOLGODA GANGA CROSS SECTION

DOWN STREAM CROSS SECTION

northing	easting	distance	elevation		
166853.233	111234.842		1.363	SH	LEFT
166851.656	111248.527	13.776	1.245	SH	
166848.870	111265.765	17.462	1.267	SH	
166846.298	111286.463	20.857	1.219	SH	
166844.996	111301.096	14.691	1.093	SH	
166842.811	111311.828	10.952	1.261	SH	
166841.352	111324.308	12.565	0.942	BA	
166840.799	111326.750	2.504	0.490	BE	
166839.571	111337.774	11.092	-0.076	SHW	
166837.875	111349.144	11.496	-0.138	BE	
166836.815	111354.039	5.008	0.622	BU	
166836.647	111355.368	1.340	0.793	STN7A	
166836.602	111356.731	1.364	0.654	BU	
166836.396	111357.814	1.102	-0.647	BE	
166835.248	111365.556	7.827	-1.779	BE	
166834.891	111367.993	2.463	-0.773	BA	
166834.715	111369.706	1.722	0.410	BA	
166834.382	111374.175	4.481	0.526	BA	
166834.171	111376.094	1.931	0.293	BA	
166833.734	111376.978	0.986	-0.644	BE	
166833.161	111382.765	5.815	-1.535	BE	
166830.399	111402.610	20.036	-1.873	SHW	
166829.063	111413.360	10.833	-2.594	SHW	
166827.585	111427.076	13.795	-1.376	SHW	
166826.070	111434.895	7.964	-0.928	BE	
166825.815	111436.010	1.144	0.586	BA	
166825.654	111439.175	3.169	1.147	BU	
166825.021	111442.584	3.467	0.597	BE	
166823.374	111453.342	10.883	0.787	SH	
166822.058	111464.529	11.264	0.395	SH	
166819.799	111479.927	15.563	0.366	SH	
166818.112	111495.824	15.986	0.306	SH	
166815.690	111512.758	17.106	0.339	SH	
166813.650	111529.024	16.393	0.372	SH	
166811.831	111543.815	14.902	0.400	SH	RIGHT

KELANI GANGA CROSS SECTION
UP STREAM

northing	easting	distance	elevation		
192938.264	111544.517		5.080	L-SH	LEFT
192942.283	111543.425	4.165	5.135	L-SH	
192944.003	111542.958	1.782	5.593	L-SH	
192945.876	111542.450	1.941	5.647	L-SH-TE	
192952.166	111540.734	6.520	5.687	L-SH-TE	
192953.350	111540.391	1.233	5.655	L-SH	
192955.230	111539.846	1.957	5.448	L-SH	
192961.469	111537.636	6.619	5.330	L-SH	
192973.014	111534.677	11.918	5.457	L-SH	
192983.117	111531.968	10.460	5.401	L-SH	
193004.847	111526.157	22.494	5.701	L-SH	
193016.425	111523.051	11.987	5.811	L-SH	
193028.232	111519.892	12.222	5.855	L-SH	
193042.067	111516.197	14.320	5.743	L-SH	
193056.273	111512.403	14.704	5.799	L-SH	
193066.096	111509.779	10.167	5.883	L4	
193068.726	111509.077	2.722	6.025	L-BNK	
193070.543	111508.591	1.881	5.124	L-BNK	
193075.800	111507.200	5.438	5.358	L3	
193075.809	111507.185	0.017	5.358	L-BNK	
193079.285	111506.267	3.595	4.187	L-BNK	
193082.114	111506.193	2.830	3.583	L-BNK	
193085.400	111504.600	3.652	0.723	BA	
193090.100	111503.200	4.904	-1.291	SHW	
193097.400	111499.500	8.184	-2.199	SHW	
193104.100	111499.700	6.703	-2.467	SHW	
193115.200	111497.100	11.400	-3.100	SHW	
193128.600	111490.400	14.982	-3.081	SHW	
193150.100	111481.800	23.156	-4.168	SHW	
193167.300	111480.600	17.242	-3.713	SHW	
193180.200	111479.800	12.925	-0.374	SHW	
193183.500	111479.500	3.314	2.591	BA	
193183.500	111479.600	0.100	2.547	BA	
193186.500	111477.600	3.606	4.251	BA	
193187.400	111505.300	27.715	0.335	WAT-LEVEL	
193187.736	111477.752	27.550	5.730	L2A	
193189.600	111476.800	2.093	5.735	BA	
193192.900	111476.500	3.314	6.032	SH	
193198.500	111503.600	27.673	5.764	L1B	
193202.658	111473.700	30.188	5.824	L2B	
193204.600	111494.800	21.189	5.981	L1A	
193205.500	111473.000	21.819	5.834	BC	
193206.600	111483.600	10.657	5.808	BC	
193216.700	111468.600	18.083	5.954	SH	
193217.000	111482.800	14.203	5.694	BC	
193232.100	111465.800	22.738	5.770	SH	
193240.800	111463.100	9.109	5.517	TE	
193243.600	111462.200	2.941	5.341	TE	
193249.200	111460.300	5.914	5.307	TE	
193251.700	111459.900	2.532	5.283	SH	
193253.600	111459.500	1.942	5.476	SH	
193255.800	111459.100	2.236	5.165	SH	
193267.500	111455.200	12.333	5.183	SH	
193277.400	111453.000	10.141	5.398	SH	
193284.600	111451.500	7.355	5.082	SH	RIGHT

KELANI GANGA CROSS SECTION
CENTER STREAM

northing	eastng	distance	elevation		
192924.654	111445.466		5.132	C-SH	LEFT
192929.489	111444.793	4.882	5.433	C-SH	
192931.586	111444.270	2.161	5.471	C-SH-TE	
192937.926	111442.452	6.596	5.446	C-SH-TE	
192939.146	111442.015	1.296	5.418	C-SH	
192940.276	111441.916	1.134	4.598	C-SH	
192940.916	111441.691	0.678	5.253	C-SH	
192943.470	111440.789	2.709	4.741	C-SH	
192957.903	111436.228	15.137	4.639	C-SH	
192971.364	111432.674	13.922	4.678	C-SH	
192984.468	111429.069	13.591	4.810	C-SH	
192996.817	111425.390	12.885	4.933	C-SH	
193008.472	111422.385	12.036	5.293	C-SH	
193023.743	111418.112	15.858	5.698	C-SH	
193037.173	111414.385	13.938	6.003	C-SH	
193042.836	111417.567	6.496	5.956	C-SH	
193046.173	111411.962	6.523	5.533	C3-OK	
193049.149	111415.642	4.733	5.394	C-BNK	
193050.477	111410.720	5.098	4.479	C-BNK	
193051.609	111414.898	4.329	4.156	C-BNK	
193053.300	111410.200	4.993	3.718	BA	
193053.753	111410.503	0.545	3.594	C-BNK	
193054.490	111414.022	3.595	3.645	C-3	
193055.500	111410.100	4.050	2.714	BA	
193062.300	111407.300	7.354	-1.137	SHW	
193082.500	111399.300	21.726	-2.604	SHW	
193084.000	111403.000	3.992	-4.201	SHW	
193093.200	111403.000	9.200	-2.728	SHW	
193106.400	111401.400	13.297	-2.217	SHW	
193117.200	111391.800	14.450	-2.380	SHW	
193131.400	111393.500	14.301	-2.844	SHW	
193141.300	111391.700	10.062	-3.172	SHW	
193152.100	111385.800	12.307	-3.014	SHW	
193160.100	111383.300	8.382	-0.147	SHW	
193162.847	111380.835	3.691	4.181	C2	
193164.652	111380.259	1.895	5.601	C-BNK	
193177.523	111376.780	13.333	5.985	C-SH	
193180.637	111375.931	3.228	5.829	C1	
193195.356	111371.851	15.274	5.759	C-SH	
193210.983	111367.518	16.217	5.667	C-SH	
193224.284	111363.833	13.802	5.901	C-SH	
193227.309	111362.990	3.140	5.256	C-SH	
193229.095	111362.491	1.854	5.288	C-SH-TE	
193234.421	111361.014	5.527	5.189	C-SH-TE	
193242.456	111358.785	8.338	5.092	C-SH	
193255.819	111355.077	13.868	4.719	C-SH	
193255.837	111355.074	0.018	4.983	C-SH	
193278.619	111348.753	23.643	4.703	C-SH	
193290.016	111345.585	11.829	4.384	C-SH	
193315.091	111338.630	26.022	4.645	C-SH	RIGHT

KELANI GANGA CROSS SECTION
DOWN STREAM

northing	eastng	distance	elevation		
192909.800	111332.840		5.577	R-SH	LEFT
192915.742	111331.749	6.041	5.727	R-SH-TE	
192921.669	111330.681	6.022	5.544	R-SH-TE	
192923.378	111330.214	1.772	5.464	R-SH	
192924.632	111330.023	1.268	4.930	R-SH-DN	
192925.460	111329.896	0.838	5.333	R-SH-RW	
192928.663	111328.647	3.438	5.483	R-SH	
192937.327	111327.410	8.752	5.517	R-SH	
192951.650	111325.144	14.501	5.603	R-SH	
192968.711	111321.843	17.377	5.788	R-SH	
192973.610	111321.262	4.933	6.331	R-SH	
192981.665	111319.567	8.231	7.893	R-SH	
192985.765	111318.873	4.158	8.858	R-SH	
192994.031	111316.965	8.483	9.500	R5	
192995.371	111323.395	6.568	6.193	R-SH	
192996.924	111316.253	7.309	9.221	R-SH	
192997.023	111316.430	0.203	7.015	R-SH	
192999.045	111320.707	4.731	6.252	R-SH	
193002.303	111315.145	6.446	6.371	R-SH	
193013.213	111308.273	12.894	6.684	R-SH	
193018.152	111311.495	5.897	6.443	R-SH	
193030.800	111308.700	12.953	6.588	R3	
193034.995	111308.570	4.197	3.904	R-BNK	
193035.200	111307.900	0.701	4.057	BA	
193038.900	111307.000	3.808	2.540	BA	
193040.800	111307.500	1.965	-0.052	SHW	
193051.400	111307.600	10.600	-1.653	SHW	
193055.600	111306.400	4.368	-2.255	SHW	
193067.000	111305.400	11.444	-2.364	SHW	
193074.500	111298.400	10.259	-2.858	SHW	
193084.200	111292.200	11.512	-2.967	SHW	
193095.900	111295.200	12.078	-2.681	SHW	
193107.100	111291.900	11.676	-2.535	SHW	
193116.400	111285.400	11.346	-1.959	SHW	
193126.500	111286.900	10.211	-1.350	SHW	
193133.900	111283.000	8.365	-0.376	SHW	
193136.100	111283.000	2.200	2.722	BA	
193140.444	111279.363	5.666	4.971	R-2-BNK	
193152.196	111276.189	12.173	5.915	R-SH	
193168.098	111271.894	16.472	5.606	R-SH	
193184.987	111267.327	17.496	5.530	R-SH	
193198.045	111263.802	13.525	5.249	R-SH	
193212.201	111259.967	14.666	5.269	R-SH	
193217.402	111258.571	5.385	5.346	R1	
193218.378	111258.308	1.011	5.436	R-SH-TE	
193223.916	111256.813	5.736	5.262	R-SH-TE	
193234.503	111253.977	10.960	5.166	R-SH-TE	
193242.696	111251.791	8.480	4.953	R-SH	
193245.862	111250.942	3.278	3.605	R-SH-BNK	
193250.699	111249.646	5.008	3.476	R-SH-BED	
193252.125	111249.424	1.443	4.096	R-SH-BNK	
193263.293	111246.768	11.479	4.298	R-SH	
193267.060	111245.516	3.970	4.517	R-SH	
193279.877	111242.331	13.207	5.233	R-SH	RIGHT

KELANI GAGA BORE HOLE POSITIONS -:

193165.690	111379.549	5.476	(BH- BIYAGAMA)
193045.649	111434.441	6.398	(BH- KADUWELA)

Annex 10: Control points residual of aerial triangulation

***** CONTROL POINTS RESIDUAL *****

AREA : COLOMBO
DATE : 11-07-01

COURSE NO.	C- 1	8	MODELS	PHOTO	NO. (79 - 71)
COURSE NO.	C- 2	6	MODELS	PHOTO	NO. (86 - 92)
COURSE NO.	C- 3	3	MODELS	PHOTO	NO. (10 - 13)
COURSE NO.	C- 4	3	MODELS	PHOTO	NO. (62 - 59)
COURSE NO.	C- 5	3	MODELS	PHOTO	NO. (83 - 86)
COURSE NO.	C- 6	3	MODELS	PHOTO	NO. (51 - 48)
COURSE NO.	C- 7	4	MODELS	PHOTO	NO. (66 - 62)
COURSE NO.	C- 8	3	MODELS	PHOTO	NO. (46 - 49)
COURSE NO.	C- 9	3	MODELS	PHOTO	NO. (30 - 27)
COURSE NO.	C-10	4	MODELS	PHOTO	NO. (70 - 66)
COURSE NO.	C-11	3	MODELS	PHOTO	NO. (30 - 27)
COURSE NO.	C-12	5	MODELS	PHOTO	NO. (5 - 10)
COURSE NO.	C-13	9	MODELS	PHOTO	NO. (2 - 11)

GIVEN COORDINATES
RESULT COORDINATES RESIDUAL (= RESULT - GIVEN)

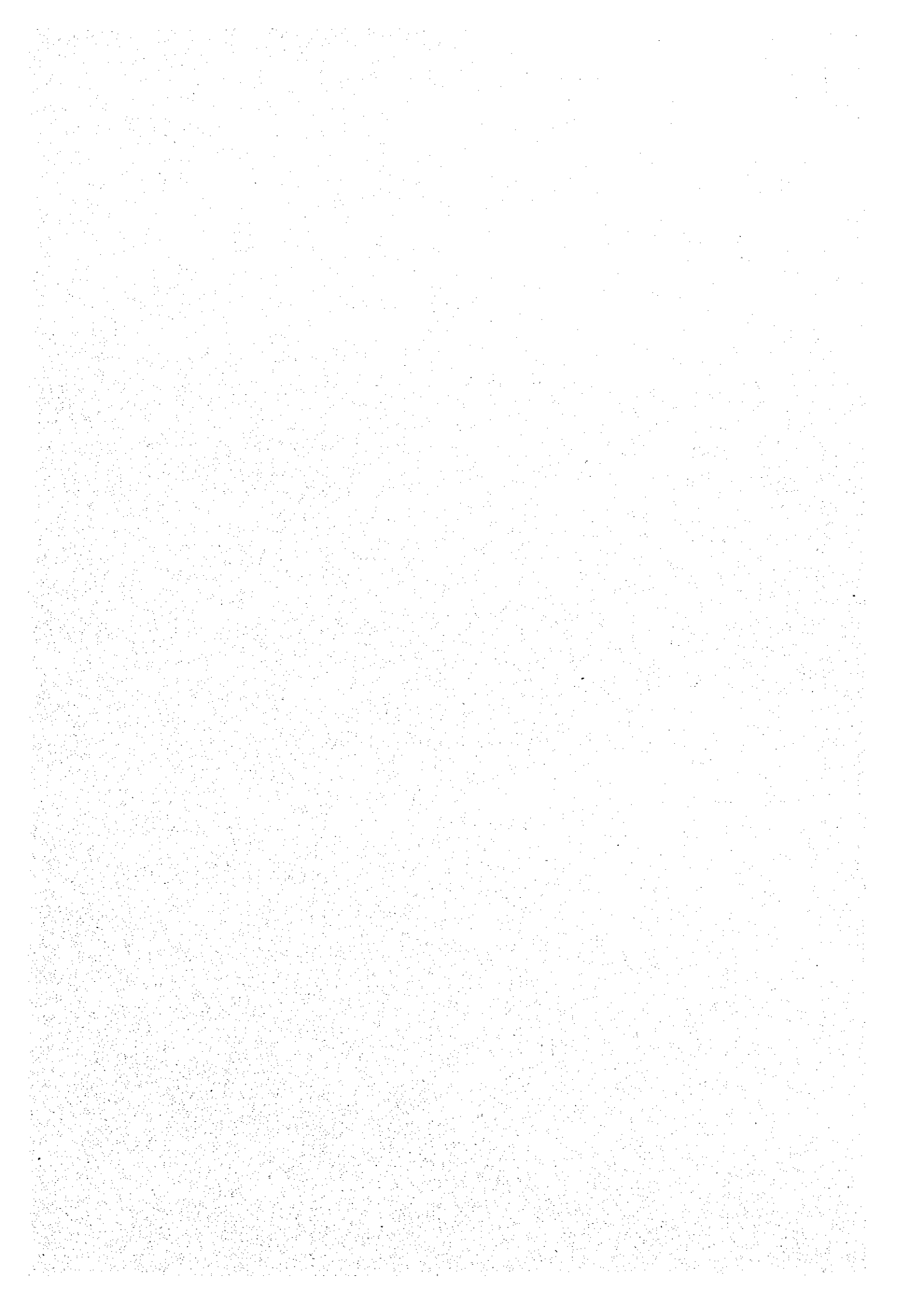
NO.	NAME	COORD. IN METER			COORD. IN METER			
		X(N)	Y(E)	H	DX	DY	DL	DH
1	1301-G1	166634.070 166633.834	104826.020 104826.181	3.590 4.472				
					-0.236	0.161	0.286	0.882
2	1302-G1	167180.160 167180.238	111188.030 111188.042	7.200 7.159				
					0.078	0.012	0.079	-0.041
3	1303-G2	167004.670 167004.627	112895.620 112895.593	1.110 1.120				
					-0.043	-0.027	0.051	0.010
4	1304-G2	173495.230 173495.209	109991.650 109991.737	2.620 2.524				
					-0.021	0.087	0.089	-0.096
5	1305-G1	176641.700 176641.675	113392.390 113392.406	21.700 21.960				
					-0.025	0.016	0.030	0.260
6	1306-G	179080.070 179080.143	111877.000 111876.891	23.390 23.330				
					0.073	-0.109	0.131	-0.060
7	1307-G	185152.110 185152.090	113748.330 113748.623	25.850 25.645				
					-0.020	0.293	0.294	-0.205
8	1308-G	188270.160 188270.097	110485.900 110485.703	8.510 8.503				
					-0.063	-0.197	0.207	-0.007
9	1309-G	190207.990 190207.939	111767.700 111768.119	14.690 15.211				
					-0.051	0.419	0.422	0.521
10	1310-G1	193503.970 193503.884	113086.430 113086.082	6.080 5.747				
					-0.086	-0.348	0.358	-0.333
11	1311-G	193414.650 193414.543	112218.580 112218.845	4.620 4.655				
					-0.107	0.265	0.286	0.035
15	1312-G	200613.120 200613.187	110105.080 110105.125	9.360 9.269				
					0.067	0.045	0.081	-0.091
14	1313-G1	200446.240 200446.222	106363.530 106363.488	1.760 1.746				
					-0.018	-0.042	0.046	-0.014

13	1314-G1	202185.180 202185.172	102208.520 102208.640	2.890 2.885	-0.008	0.120	0.120	-0.005
12	1397-G1	195739.490 195739.601	113919.010 113919.041	6.100 6.114	0.111	0.031	0.115	0.014
16	2301-H	* 201967.699	* 102003.288	2.390 2.353	*	*	*	-0.037
17	2302-H	* 202152.004	* 102976.348	5.380 5.740	*	*	*	0.360
18	2303-H	* 201235.609	* 103140.143	4.980 5.002	*	*	*	0.022
19	2304-H	* 202318.906	* 103938.488	3.620 3.837	*	*	*	0.217
20	2305-H	* 202940.894	* 104690.255	3.230 2.920	*	*	*	-0.310
21	2306-H	* 203047.761	* 105870.042	3.000 2.965	*	*	*	-0.035
22	2307-H	* 201590.949	* 105744.742	1.740 1.330	*	*	*	-0.410
23	2308-H	* 200757.906	* 106442.904	3.160 3.392	*	*	*	0.232
24	2309-H	* 200521.636	* 107953.158	23.640 23.631	*	*	*	-0.009
25	2310-H	* 199897.664	* 109299.808	14.690 15.419	*	*	*	0.729
26	2311-H	* 200051.074	* 107117.702	8.570 8.840	*	*	*	0.270
27	2312-H	* 200325.812	* 108349.889	25.710 25.553	*	*	*	-0.157
28	2313-H	* 200222.047	* 109148.450	27.450 28.118	*	*	*	0.668
29	2314-H	* 199025.435	* 109778.475	6.460 6.413	*	*	*	-0.047
30	2315-H	* 198756.113	* 110906.970	26.190 25.812	*	*	*	-0.378
31	2316-H	* 197953.480	* 111021.459	31.820 31.546	*	*	*	-0.274
32	2317-H	* 194950.019	* 111453.254	15.650 15.071	*	*	*	-0.579
33	2318-H	* 196810.994	* 111920.467	29.720 29.948	*	*	*	0.228
34	2319-H	* 193201.953	* 110215.676	4.950 4.732	*	*	*	-0.218
35	2320-H	* 194167.324	* 112068.705	4.290 4.288	*	*	*	-0.002
36	2321-H	* *	* *	6.420 58				

59	2344-H	*	*	4.550				
		176123.796	112249.518	4.027	*	*	*	-0.523
60	2345-H	*	*	4.380				
		174268.236	111533.713	5.169	*	*	*	0.789
61	2346-H	*	*	3.730				
		174680.857	112361.881	3.654	*	*	*	-0.076
62	2347-H	*	*	12.110				
		173845.349	112374.093	12.345	*	*	*	0.235
63	2348-H	*	*	11.210				
		175428.001	112687.055	11.536	*	*	*	0.326
64	2349-H	*	*	8.810				
		176508.153	113033.722	7.957	*	*	*	-0.853
65	2350-H	*	*	16.770				
		172687.802	111413.631	16.736	*	*	*	-0.034
66	2351-H	*	*	17.890				
		171253.907	111826.832	18.559	*	*	*	0.669
67	2352-H	*	*	6.560				
		170308.471	112300.711	6.354	*	*	*	-0.206
68	2354-H	*	*	7.020				
		167625.046	109331.811	6.891	*	*	*	-0.129
69	2355-H	*	*	2.240				
		167110.292	110724.497	2.184	*	*	*	-0.056
70	2356-H	*	*	2.390				
		167416.757	111463.381	2.051	*	*	*	-0.339
71	2357-H	*	*	1.140				
		167765.152	111994.890	1.323	*	*	*	0.183
72	2358-H	*	*	2.890				
		168701.028	112933.106	2.568	*	*	*	-0.322
73	2359-H	*	*	4.880				
		165769.023	105273.183	4.499	*	*	*	-0.381
74	2360-H	*	*	3.360				
		166539.909	105462.009	3.565	*	*	*	0.205
75	2361-H	*	*	4.180				
		166637.180	106510.682	3.598	*	*	*	-0.582
76	2353-H	*	*	1.940				
		167554.616	107618.022	1.966	*	*	*	0.026
77	2362-H	*	*	3.040				
		167580.460	108521.149	3.310	*	*	*	0.270
78	2363-H	*	*	2.100				
		167198.394	110384.352	2.241	*	*	*	0.141
79	2364-H	*	*	1.440				
		165964.161	110527.733	1.962	*	*	*	0.522

S.D = 0.211 0.364
MAX = 0.422 0.882

	193305.492	111804.408	6.244	*	*	*	-0.176
37 2322-H	*	*	22.930				
	191390.767	111960.519	22.740	*	*	*	-0.190
38 2323-H	*	*	11.220				
	192203.226	112582.472	11.755	*	*	*	0.535
39 2324-H	*	*	10.060				
	188124.500	110396.978	10.578	*	*	*	0.518
40 2325-H	*	*	21.190				
	189925.644	111177.717	21.186	*	*	*	-0.054
41 2326-H	*	*	14.320				
	187420.013	110993.251	14.860	*	*	*	0.540
42 2327-H	*	*	6.730				
	187101.865	112149.732	6.928	*	*	*	0.198
43 2328-H	*	*	13.270				
	186568.009	113155.958	13.616	*	*	*	0.346
44 2329-H	*	*	20.380				
	185421.072	113791.170	20.495	*	*	*	0.115
45 2330-H	*	*	28.710				
	182551.943	110632.916	29.229	*	*	*	0.519
46 2331-H	*	*	29.490				
	181505.069	110578.829	29.177	*	*	*	-0.313
47 2333-H	*	*	22.490				
	181077.635	111856.066	22.137	*	*	*	-0.353
48 2332-H	*	*	13.990				
	183314.187	112265.096	14.081	*	*	*	0.091
49 2334-H	*	*	17.270				
	184167.422	112920.848	17.193	*	*	*	-0.077
50 2335-H	*	*	13.860				
	182002.082	112700.583	13.744	*	*	*	-0.116
51 2336-H	*	*	31.510				
	181098.942	111162.961	31.286	*	*	*	-0.224
52 2337-H	*	*	22.250				
	180599.296	112019.248	22.558	*	*	*	0.308
53 2338-H	*	*	21.530				
	179742.468	112504.874	22.210	*	*	*	0.680
54 2339-H	*	*	24.520				
	178865.212	111958.596	25.145	*	*	*	0.625
55 2340-H	*	*	7.320				
	179005.978	112676.025	7.956	*	*	*	0.636
56 2341-H	*	*	4.340				
	176245.092	112507.418	3.883	*	*	*	-0.457
57 2342-H	*	*	6.320				
	177805.955	113461.388	5.952	*	*	*	-0.368
58 2343-H	*	*	12.090				
	173719.242	110498.310	12.446	*	*	*	0.356



Tab.A.2.1 SUMMARY OF PROJECT COST (INITIAL STAGE: 4-6 TRAFFIC LANES STAGE CONSTRUCTION)

(*) For the purpose of preparation of ENGINEER'S ESTIMATES, the following Basic Unit Prices should be added with 10.0 % for road works as overhead, 15.0 % for bridge works as overhead.

Items	No.	Description	Unit	Unit Price		Unit Price-2(*) (Including Overhead)		Part1 (Southern Highway)					Part2					Part3					OCTER CUR
				F/C	L/C	F/C	L/C	Initial 4 Traffic Lanes			Initial 4 Traffic Lanes			Initial 4 Traffic Lanes									
				(Rs)	(Rs)	(Rs)	(Rs)	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost				
								unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)				
I	Earth Works	1	CUTTING	m3	14.00	126.00	15.40	138.60	434,615.00	m3	9.8	81.0	97.7	1,122,772.00	m3	17.3	153.6	172.9	814,576.00	m3	12.5	112.9	123.4
		2	EMBANKMENT-1	m3	8.50	76.46	9.37	84.10	66,163.00	m3	0.6	5.6	6.2	73,818.00	m3	0.7	6.1	6.9	20,881.00	m3	0.2	1.7	1.9
		3	EMBANKMENT-2	m3	26.81	241.29	29.49	265.42	312,835.00	m3	9.2	83.0	92.3	0.00	m3	0.8	0.0	0.0	0.00	m3	0.0	0.0	0.0
		4	EMBANKMENT-3	m3	7.17	64.53	7.89	70.96	434,615.00	m3	5.0	45.0	50.1	991,133.00	m3	7.8	70.4	78.2	514,333.00	m3	4.6	41.3	46.1
		5	FOUNDATION STABILIZER	m3	50.00	450.00	55.00	495.00	0.00	m3	0.0	0.0	0.0	0.00	m3	0.0	0.0	0.0	50,000.00	m2	2.8	24.8	27.5
		6	SLOPE PROTECTION	m2	5.21	46.89	5.73	51.58	235,664.00	m2	1.4	12.2	13.5	377,150.00	m2	2.2	19.3	21.6	187,093.00	m2	1.1	9.7	10.7
		7	RETAINING WALL	m	83.00	747.00	91.30	821.70	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	6,529.00	m2	0.6	5.4	6.0
			SUB TOTAL (Earth works)									24.0	233.8	259.8			28.0	231.6	272.6		21.8	193.1	217.6
II	Road Works	1	WEARING COURSE	m2	172.26	114.81	189.49	126.32	302,435.19	m2	57.3	38.2	95.5	368,820.19	m2	69.9	46.6	116.5	144,734.19	m2	28.2	18.8	47.0
		2	BINDER COURSE	m2	213.97	142.65	235.37	156.92	316,132.00	m2	91.4	60.9	152.3	473,352.00	m2	111.4	74.3	155.7	190,881.80	m2	44.9	30.0	74.9
		3	BASE COURSE	m2	205.16	136.78	223.68	150.46	401,090.40	m2	90.5	60.3	150.9	489,130.40	m2	110.4	73.6	181.0	197,231.76	m2	44.5	29.7	74.2
		4	SUBBASE COURSE	m2	49.13	26.75	44.14	29.43	414,732.60	m2	18.3	12.2	30.5	504,888.39	m2	22.3	14.9	37.1	203,897.59	m2	9.0	6.0	13.0
		5	CENTER MEDIAN	m	7,200.00	4,800.00	7,920.00	5,280.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		6	KERB	m	712.80	475.20	784.08	522.72	64,692.00	m	50.7	33.8	84.5	78,892.00	m	61.9	41.2	103.1	31,414.80	m	24.9	16.6	41.6
		7	FRONTAGE ROAD	m2	343.10	228.73	377.41	251.61	114,605.00	m2	43.3	28.8	72.1	202,667.00	m2	76.1	51.0	127.5	53,965.00	m2	20.4	13.6	33.9
			SUB TOTAL (Road Works)									351.5	234.3	585.8			432.32	301.53	733.86		171.94	114.63	286.37
III	(a) Bridge Works	1	LENGTH-50m	No.						No.	0.0	0.0	0.0		No.	0.00	0.00	0.00		No.	0.0	0.0	0.0
		2	LENGTH-50m	No.					1.00	No.	33.1	35.1	70.2		No.	0.00	0.00	0.00		No.	0.0	0.0	0.0
		3	KELANI GANGA BRIDGE	No.						No.	0.0	0.0	0.0	1.00	No.	149.78	149.78	299.57		No.	0.0	0.0	0.0
		4	BOLOODA GANGA BRIDGE	No.						No.	0.0	0.0	0.0		No.	0.00	0.00	0.00		No.	0.0	0.0	0.0
	(c) Overpass	6	LENGTH-50m	No.					3.00	No.	49.4	49.4	98.7	0.00	No.	0.00	0.00	0.00		No.	9.3	9.3	18.6
		7	LENGTH-50m	No.					14.00	No.	103.2	103.2	206.5	0.00	No.	0.00	0.00	0.00		No.	63.3	63.3	126.5
		8		No.						No.					No.					No.			
			SUB TOTAL (Bridge)									187.7	187.7	375.4			149.78	149.78	299.57			72.5	72.5
(b) Viaduct Works	1	LENGTH-50m	No.					0.00	No.	0.0	0.0	0.0		No.	0.00	0.00	0.00		No.	0.00	0.00	0.00	
	2	LENGTH-50m	No.					3.00	No.	245.4	245.4	490.8	3.00	No.	88.19	88.19	176.39		No.	132.09	132.09	264.18	
	SUB TOTAL (Viaduct)									245.4	245.4	490.8			88.19	88.19	176.39			214.8	214.8	429.6	
IV	Underpass Works (Box Culvert)	1	UCX3 0x6.0 m (A=48m2)	m	720,000.00	720,000.00	828,000.00	828,000.00	41.00	m	33.9	33.9	67.8	33.00	m	29.0	29.0	58.0	33.00	m	30.6	30.6	61.3
		2	UCX6 0x6.0 m (A=36m2)	m	540,000.00	540,000.00	621,000.00	621,000.00	76.00	m	47.2	47.2	94.4	33.00	m	20.5	20.5	41.0	0.00	m	0.0	0.0	0.0
		3	UCX6 0x3.0 m (A=30m2)	m	450,000.00	450,000.00	517,500.00	517,500.00	74.00	m	38.3	38.3	76.6	151.00	m	78.1	78.1	156.3	143.00	m	74.0	74.0	148.0
		4	UCX3 0x3.0 m (A=25m2)	m	375,000.00	375,000.00	431,250.00	431,250.00	72.00	m	31.1	31.1	62.2	297.00	m	128.1	128.1	256.2	0.00	m	0.0	0.0	0.0
		5	UCX6 0x3.0 m (A=18m2)	m	270,000.00	270,000.00	316,500.00	316,500.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	50.00	m	15.5	15.5	31.1
		6	UCX3 0x3.0 m (A=15m2)	m	225,000.00	225,000.00	258,750.00	258,750.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		7	UCX4 0x2.0 m (A=8m2)	m	120,000.00	120,000.00	138,000.00	138,000.00	92.00	m	12.7	12.7	25.4	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		8	UCX6 0x0.5 m (A=3m2)	m	45,000.00	45,000.00	51,750.00	51,750.00	0.00	m	0.0	0.0	0.0	33.00	m	1.4	1.4	2.8	0.00	m	0.0	0.0	0.0
	SUB TOTAL (Underpass)									163.2	163.2	326.4			257.5	257.5	515.0			120.2	120.2	240.3	
VI	Interchange Works	1	- Interchange	No.	0.00	0.00			2.00	No.	83.3	79.2	162.5	4.00	No.	143.6	142.4	286.4	2.00	No.	156.8	227.6	344.4
		2	- Junction	No.	0.00	0.00			0.00	No.	0.0	0.0	0.0	0.00	No.	0.0	0.0	0.0	0.00	No.	0.0	0.0	0.0
			SUB TOTAL (Interchange)									83.3	79.2	162.5			143.6	142.4	286.4			156.8	227.6
VII	Drainage Works	1	PC 1500 mm	m	18,750.00	18,750.00	21,562.50	21,562.50	2,059.00	m	22.8	22.8	45.7	1,209.00	m	26.1	26.1	52.1	183.00	m	3.9	3.9	7.9
		2	DCX10 0x4.0 m (A=40m2)	m	690,000.00	690,000.00	793,500.00	793,500.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		3	DCX6 0x4.0 m (A=24m2)	m	414,000.00	414,000.00	476,100.00	476,100.00	66.00	m	31.4	31.4	62.8	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		4	DCX7 0x3.0 m (A=21m2)	m	363,250.00	363,250.00	416,337.50	416,337.50	0.00	m	0.0	0.0	0.0	118.00	m	49.2	49.2	98.3	0.00	m	0.0	0.0	0.0
		5	DCX3 0x3.0 m (A=15m2)	m	258,750.00	258,750.00	297,562.50	297,562.50	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		6	DCX4 0x2.0 m (A=8m2)	m	138,000.00	138,000.00	158,700.00	158,700.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		7	DCX3 0x2.0 m (A=6m2)	m	103,500.00	103,500.00	119,823.00	119,823.00	50.00	m	6.0	6.0	11.9	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		8	ROAD SURFACE DRAINAGE	m	10,500.00	10,500.00	12,075.00	12,075.00	16,000.00	m	193.7	193.7	387.4	20,000.00	m	241.3	241.3	482.6	8,000.00	m	96.6	96.6	193.2
	Slotted Channel	9	DCX4 0x2.0 m (A=8m2)	m	138,000.00	138,000.00	158,700.00	158,700.00	61.00	m	10.0	10.0	20.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
		10	U-DITCH15 0x3.5 m (A=17.5m2)	m	301,875.00	301,875.00	347,156.25	347,156.25	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	240.00	m	83.3	83.3	166.6
		11	U-DITCH1.4x0.7 m (A=1m2)	m	17,250.00	17,250.00	19,837.50	19,837.50	750.00	m	14.9	14.9	29.8	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0
	SUB TOTAL (Drainage)									278.3	278.3	556.6			316.7	316.7	633.5			183.9	183.9	367.7	
VIII	Miscellaneous	1	TEMPORARY ROAD	La					1.00	La	13.8	20.0	33.8	1.00	La	8.0	14.7	22.7	1.00	La	9.3	14.3	23.6
		2	TEMPORARY CONSTRUCTION FACILITY	La					1.00	La	4.6	6.7	11.3	1.00	La	2.7	4.9	7.6	1.00	La	3.1	4.8	7.9
		3	TRAFFIC SIGN BOARD	m	721.00	309.00	793.10	340	16,173.00	m	12.8	5.3	18.3	19,723.00	m	13.6	6.7	22.3	7				

Tab.A.2.1 SUMMARY OF PROJECT COST (INITIAL STAGE: 4-6 TRAFFIC LANES STAGE CONSTRUCTION)

4 with 10.0 % for road works as overhead.
15.0 % for bridge works as overhead.

Part I (Southern Highway)				Part II				Part III				Part IV				Total Project Cost			Remarks						
Initial 4 Traffic Lanes				Initial 4 Traffic Lanes				Initial 4 Traffic Lanes				Final 4 Traffic Lanes													
Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Part-I					
unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)						
163.00	9.1	11.0	97.7	1,122,722.00	m3	12.3	155.6	172.9	814,576.00	m3	12.3	112.9	125.4	12,320.00	m3	0.2	1.7	1.9	1,943,664.00	m3	35.0	279.2	300.2	328.0	
165.00	0.6	5.6	6.2	73,031.00	m3	0.7	6.1	6.9	20,091.00	m3	0.2	1.7	1.9	11,112.00	m3	0.1	0.9	1.0	104,231.00	m3	1.0	8.8	9.8	16.0	
455.00	9.2	83.0	92.3	0.00	m3	0.0	0.0	0.0	0.00	m3	0.0	0.0	0.0	669,089.00	m3	19.7	177.6	197.3	669,089.00	m3	19.7	177.6	197.3	289.6	
615.00	5.0	43.0	50.1	991,133.00	m3	2.1	70.4	78.2	314,533.00	m3	4.6	41.5	46.1	12,320.00	m3	0.1	0.9	1.0	1,597,911.00	m3	12.5	112.7	125.2	175.3	
0.00	0.0	0.0	0.0	0.00	m2	0.0	0.0	0.0	30,000.00	m2	2.8	24.8	27.5	0.00	m2	0.0	0.0	0.0	50,000.00	m2	2.8	24.8	27.5	27.5	
664.00	1.4	12.2	13.5	377,190.00	m2	2.2	19.5	21.6	197,095.00	m2	1.1	9.7	10.7	81,443.00	m2	0.5	4.2	4.7	645,728.00	m2	3.7	33.3	37.0	50.5	
0.00	0.0	0.0	0.0	0.00	m2	0.0	0.0	0.0	6,529.00	m2	0.6	5.4	6.0	0.00	m2	0.0	0.0	0.0	6,529.00	m2	0.6	5.4	6.0	6.0	
	26.0	233.8	259.8			22.0	231.6	279.6			21.8	195.1	217.6			20.6	185.3	205.9			70.3	632.7	703.1	962.8	
435.10	57.3	38.2	95.5	368,320.10	m2	69.9	46.6	116.5	148,734.19	m2	28.2	18.1	47.0	115,566.20	m2	21.9	14.6	36.5	633,120.49	m2	120.0	80.0	199.9	295.5	
152.00	91.4	60.9	132.3	473,352.00	m2	111.4	74.3	175.7	190,918.80	m2	44.9	30.0	74.9	190,907.80	m2	35.5	23.7	59.2	315,144.60	m2	191.9	127.9	318.8	472.0	
090.40	90.5	60.3	150.9	499,130.40	m2	110.4	73.6	181.0	197,251.76	m2	44.5	29.7	74.2	185,186.20	m2	35.0	23.3	58.4	341,568.36	m2	189.9	126.6	316.5	467.4	
732.60	11.3	12.2	30.5	504,878.39	m2	22.3	14.9	37.1	203,897.59	m2	9.0	6.0	15.0	156,579.34	m2	7.4	4.9	12.3	475,365.36	m2	34.6	23.8	64.4	94.9	
0.00	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	m	0.0	0.0	0.0	6,720.00	m	53.2	35.5	88.7	81.7	81.7	
692.00	50.7	33.1	84.5	78,892.00	m	61.9	41.2	103.1	31,814.90	m	24.9	16.6	41.6	13,446.00	m	10.5	7.0	17.6	124,146.90	m	97.3	64.9	162.2	246.1	
605.00	43.3	21.8	72.1	202,667.00	m2	76.5	51.0	127.5	55,965.00	m2	20.4	13.6	33.0	19,162.00	m2	7.2	4.8	12.1	275,794.00	m2	104.1	68.4	173.5	245.6	
	351.5	234.3	585.8			452.32	301.53	733.86			173.94	114.63	286.57			170.8	113.9	284.6			793.0	530.0	1,323.1	1,310.9	
1.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00	33.1	33.1	70.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00	0.0	0.0	0.0	1.00	149.78	149.78	299.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	149.8	149.8	299.6	299.6	299.6
1.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	72.1	72.1	144.2	144.2	144.2
3.00	49.4	49.4	98.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	9.3	9.3	18.6	18.6	
14.00	103.2	103.2	206.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	89.8	89.8	179.6	179.6	
1.00	149.78	149.78	299.57			149.78	149.78	299.57			72.5	72.5	145.1			98.6	98.6	197.3			321.0	321.0	641.9	641.9	
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	1.00	82.73	82.73	165.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	82.7	82.7	165.5	165.5	
5.00	245.4	245.4	490.8	3.00	88.19	88.19	176.39	3.00	132.09	132.09	264.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	220.3	220.3	440.6	440.6	
	245.4	245.4	490.8			88.19	88.19	176.39			214.8	214.8	429.6			0.0	0.0	0.0	0.0	0.00	303.0	303.0	606.0	606.0	
41.00	33.9	33.9	67.8	35.00	29.8	29.8	59.6	37.00	30.6	30.6	61.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00	32.6	32.6	65.2	65.2	
76.00	47.2	47.2	94.4	33.00	20.5	20.5	41.0	0.00	0.00	0.00	0.00	30.00	18.6	18.6	37.3	63.00	39.1	39.1	78.2	0.00	39.1	39.1	78.2	78.2	
74.00	36.3	36.3	72.6	151.00	76.1	76.1	152.3	143.00	74.0	74.0	148.0	0.00	0.00	0.00	0.00	294.00	152.3	152.3	304.3	0.00	152.3	152.3	304.3	304.3	
72.00	31.1	31.1	62.2	297.00	128.1	128.1	256.2	0.00	0.00	0.00	0.00	28.00	12.1	12.1	24.2	233.00	140.2	140.2	280.3	0.00	140.2	140.2	280.3	280.3	
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	50.00	15.5	15.5	31.1	0.00	0.00	0.00	0.00	50.00	15.5	15.5	31.1	0.00	15.5	15.5	31.1	31.1	
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.00	12.7	12.7	25.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.0	0.0	0.0	35.00	1.8	1.8	3.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	1.8	1.8	3.6	3.6	
	163.2	163.2	326.4			257.5	257.5	515.0			120.2	120.2	240.3			37.4	37.4	74.8			415.1	415.1	830.2	830.2	
2.00	83.3	79.2	162.5	0.00	143.6	143.6	287.3	2.00	156.8	156.8	313.6	2.00	127.5	127.5	255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	83.3	79.2	162.5			143.6	143.6	287.3			156.8	156.8	313.6			127.5	127.5	255.0			427.9	427.9	855.5	855.5	
659.00	22.1	21.1	43.2	1,209.00	m	26.1	26.1	52.2	183.00	m	3.9	3.9	7.8	155.00	m	3.3	3.3	6.7	1,547.00	m	33.4	33.4	66.7	66.7	
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
66.00	31.4	31.4	62.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00	0.0	0.0	0.0	118.00	49.2	49.2	98.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
50.00	6.0	6.0	12.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
000.00	193.2	193.2	386.4	20,000.00	m	241.5	241.5	483.0	4,000.00	m	96.6	96.6	193.2	7,000.00	m	84.5	84.5	169.1	35,000.						

Tab.A.2.2 SUMMARY OF PROJECT COST (FINAL STAGE: 6 TRAFFIC LANES COMPLETION)

(*) For the purpose of preparation of ENGINEER'S ESTIMATES, the following Base Unit Prices should be added with 10.0 % for road works as overhead, 15.0 % for bridge works as overhead.

Items	No.	Description	Unit	Unit Price-1 (Base)		Unit Price-2(*) (Including Overhead)		Part I (Southern Highway)						Part II						Part III		OUTER CIRCULAR HIGHWAY			
				Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes		Final 6 Traffic Lanes					
				F/C	L/C	F/C	L/C	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities					
				(Rs)	(Rs)	(Rs)	(Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit					
I	Earth Works	1	CUTTING	m ³	14.00	125.00	15.40	138.60	634,613.00	m ³	5.8	81.0	51.7	1,122,772.00	m ³	17.3	155.6	172.9	114,576.00	m ³	12.5	112.9	125.4	12,320.00	m ³
		2	EMBANKMENT-1	m ³	8.50	76.46	9.27	84.18	66,165.00	m ³	6.6	5.6	6.2	73,038.00	m ³	0.7	6.1	6.9	20,081.00	m ³	0.2	1.7	1.9	11,112.00	m ³
		3	EMBANKMENT-2	m ³	26.41	241.29	29.43	265.43	312,553.00	m ³	9.2	83.6	92.3	0.00	m ³	0.0	0.0	0.0	0.00	m ³	0.0	0.0	0.0	669,089.00	m ³
		4	EMBANKMENT-3	m ³	7.17	64.53	7.89	70.94	634,613.00	m ³	5.0	43.6	50.1	991,133.00	m ³	7.1	70.4	78.2	514,535.00	m ³	6.6	41.5	45.1	12,320.00	m ³
		5	FOUNDATION STABILIZER	m ³	50.00	450.00	55.00	495.00	0.00	m ³	0.0	0.0	0.0	0.00	m ³	0.0	0.0	0.0	50,000.00	m ³	2.0	24.0	27.5	0.00	m ³
		6	SLOPE PROTECTION	m ²	3.21	45.89	3.73	51.54	335,664.00	m ²	1.4	12.3	13.5	337,190.00	m ²	2.2	18.5	21.6	117,055.00	m ²	1.1	9.7	10.7	41,443.00	m ²
		7	RETAINING WALL	m	83.00	747.00	91.30	821.70	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	6,329.00	m	0.6	5.4	6.0	0.00	m
			SUB TOTAL (Earth works)																						
II	Road Works	1	WEARING COURSE	m ²	172.26	114.84	189.43	126.33	391,356.00	m ²	74.2	49.4	123.6	477,253.00	m ²	90.4	60.3	150.7	192,443.74	m ²	36.3	24.3	60.8	115,566.20	m ²
		2	BINDER COURSE	m ²	213.97	142.43	235.31	156.92	476,659.30	m ²	112.2	74.8	187.0	591,179.70	m ²	136.8	91.2	228.0	234,313.87	m ²	55.1	36.8	91.9	150,917.80	m ²
		3	BASE COURSE	m ²	205.16	136.78	223.64	150.46	447,775.90	m ²	110.1	73.4	143.5	594,535.70	m ²	134.2	89.5	223.6	239,538.89	m ²	54.1	36.0	90.1	153,116.20	m ²
		4	SUBBASE COURSE	m ²	45.83	26.75	44.14	29.43	518,112.18	m ²	22.5	15.0	37.6	622,558.56	m ²	27.3	18.3	45.8	251,335.13	m ²	11.1	7.4	14.5	166,379.31	m ²
		5	CENTER MEDIAN	m	7,200.00	4,800.00	7,920.00	5,280.00	16,173.06	m	128.1	83.4	213.5	19,723.00	m	156.2	104.1	260.3	7,954.70	m	63.0	42.0	105.0	6,720.00	m
		6	KERB	m	712.80	475.20	784.08	522.72	32,346.00	m	21.0	16.9	42.3	32,446.00	m	30.9	20.6	51.3	15,907.80	m	12.3	8.3	20.8	13,440.00	m
		7	FRONTAGE ROAD	m ²	343.18	228.73	377.41	251.61	114,605.00	m ²	43.3	28.8	72.1	202,667.00	m ²	76.3	51.0	127.5	53,965.00	m ²	20.8	13.6	33.9	19,162.00	m ²
			SUB TOTAL (Road Works)																						
III	(a) Bridge Works	1	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.
		2	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	1.00	Nos.	37.8	37.8	75.7	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.
		3	KELANI GANGA BRIDGE	Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	1.00	Nos.	174.3	174.3	348.6	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.
		4	BOLGODA GANGA BRIDGE	Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	1.00	Nos.
		5		Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.
	(c) Overpass	6	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	3.00	Nos.	49.4	49.4	98.7	0.00	Nos.	0.0	0.0	0.0	1.00	Nos.	9.3	9.3	18.6	0.00	Nos.
		7	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	14.00	Nos.	103.2	103.2	206.3	0.00	Nos.	0.0	0.0	0.0	6.00	Nos.	63.3	63.3	126.5	4.00	Nos.
			SUB TOTAL (Bridge)						1.00		190.4	190.4	380.9			174.3	174.3	348.6			72.5	72.5	145.1		
(b) Viaduct Works	1	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	1.00	Nos.	93.0	93.0	185.1	0.00	Nos.	
	2	LENGTH < 50m	Nos.	0.00	0.00	0.00	0.00	5.00	Nos.	273.3	273.3	546.6	3.00	Nos.	96.3	96.3	193.0	3.00	Nos.	117.3	117.3	234.5	0.00	Nos.	
	SUB TOTAL (Viaduct)								273.3	273.3	546.6	3.00		96.3	96.3	193.0			210.3	210.3	420.6				
IV	Underpass Works (Box Culvert)	1	UCX8.0x5.0 m (A-43m ²)	m	720,000.00	720,000.00	828,000.00	828,000.00	41.00	m	33.9	33.9	67.8	35.00	m	29.0	29.0	58.0	37.00	m	30.6	30.6	61.3	0.00	m
		2	UCX6.0x5.0 m (A-36m ²)	m	540,000.00	540,000.00	621,000.00	621,000.00	76.00	m	47.2	47.2	94.4	33.00	m	20.5	20.5	41.0	0.00	m	0.0	0.0	0.0	30.00	m
		3	UCX6.0x3.0 m (A-30m ²)	m	450,000.00	450,000.00	517,500.00	517,500.00	74.00	m	39.3	39.3	78.6	151.00	m	78.1	78.1	156.3	143.00	m	74.0	74.0	148.0	0.00	m
		4	UCX5.0x3.0 m (A-25m ²)	m	375,000.00	375,000.00	431,250.00	431,250.00	72.00	m	31.1	31.1	62.2	297.00	m	128.1	128.1	256.2	0.00	m	0.0	0.0	0.0	18.00	m
		5	UCX6.0x3.0 m (A-18m ²)	m	270,000.00	270,000.00	310,500.00	310,500.00	6.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	50.00	m	15.3	15.3	31.1	0.00	m
		6	UCX5.0x3.0 m (A-15m ²)	m	225,000.00	225,000.00	258,750.00	258,750.00	6.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	25.00	m
		7	UCX4.0x2.0 m (A-8m ²)	m	120,000.00	120,000.00	138,000.00	138,000.00	52.00	m	12.7	12.7	25.4	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m
		8	UCX6.0x0.5 m (A-3m ²)	m	45,000.00	45,000.00	51,750.00	51,750.00	0.00	m	0.0	0.0	0.0	35.00	m	1.1	1.1	2.2	0.00	m	0.0	0.0	0.0	0.00	m
		SUB TOTAL (Underpass)							163.2		163.2	326.3			257.5	257.5	515.0			120.2	120.2	240.3			
VI	Interchange Works	1	- Interchange	Nos.	0.00	0.00	0.00	0.00	2.00	Nos.	83.3	79.2	162.5	4.00	Nos.	143.6	143.6	287.2	2.00	Nos.	156.8	156.8	313.6	2.00	Nos.
		2	- Junction	Nos.	0.00	0.00	0.00	0.00	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.	0.0	0.0	0.0	0.00	Nos.
			SUB TOTAL (Interchange)								83.3	79.2	162.5			143.6	143.6	287.2			156.8	156.8	313.6		
VII	Drainage Works	1	PC1500 mm	m	18,750.00	18,750.00	21,562.50	21,562.50	1,659.00	m	22.8	22.8	45.7	1,209.00	m	26.1	26.1	52.1	183.00	m	3.9	3.9	7.9	153.00	m
		2	DCX10.0x4.0 m (A-40m ²)	m	690,000.00	690,000.00	793,500.00	793,500.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	26.00	m
		3	DCX6.0x4.0 m (A-24m ²)	m	414,000.00	414,000.00	476,100.00	476,100.00	66.00	m	31.4	31.4	62.8	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m
		4	DCX7.0x3.0 m (A-21m ²)	m	362,250.00	362,250.00	416,587.50	416,587.50	0.00	m	0.0	0.0	0.0	118.00	m	49.3	49.3	98.3	0.00	m	0.0	0.0	0.0	0.00	m
		5	DCX5.0x3.0 m (A-15m ²)	m	258,750.00	258,750.00	297,562.50	297,562.50	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	27.00	m
		6	DCX4.0x2.0 m (A-8m ²)	m	138,000.00	138,000.00	158,700.00	158,700.00	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m
		7	DCX3.0x2.0 m (A-6m ²)	m	103,500.00	103,500.00	119,625.00	119,625.00	50.00	m	6.0	6.0	11.9	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m
		8	ROAD SURFACE DRAINAGE	m	10,500.00	10,500.00	12,075.00	12,075.00	16,000.00	m	193.2	193.2	386.4	20,000.00	m	241.3	241.3	482.6	8,000.00	m	96				

Tab.A.2.2 SUMMARY OF PROJECT COST (FINAL STAGE: 6 TRAFFIC LANES COMPLETION)

For road works as overhead.
For bridge works as overhead.

Part1(Southern Highway)			Part2			Part3			Part4			Total Project Cost			Remarks								
Final 6 Traffic Lanes			Final 6 Traffic Lanes			Final 6 Traffic Lanes			Final 4 Traffic Lanes			Total Project Cost			*Part-1								
F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost	Quantities	F/C	L/C	Cost					
(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)	unit	(million Rs)	(million Rs)	(million Rs)					
9.8	11.0	97.7	1,122,372.00	m3	11.3	155.6	172.9	114,574.00	m3	12.5	112.9	125.4	12,370.00	m3	0.2	1.7	1.9	1,949,664.00	m3	30.0	270.2	300.2	314.0
0.6	5.6	6.2	33,831.00	m3	0.7	6.1	6.9	20,000.00	m3	0.2	1.7	1.9	11,132.00	m3	0.1	0.9	1.0	104,338.00	m3	1.0	8.8	9.8	16.0
9.2	83.0	92.3	0.00	m3	0.0	0.0	0.0	0.00	m3	0.0	0.0	0.0	669,089.00	m3	19.7	177.6	197.3	669,089.00	m3	13.7	117.4	131.1	289.6
5.0	45.0	50.1	991,133.00	m3	7.8	70.4	78.2	514,535.00	m3	4.6	41.5	45.1	12,370.00	m3	0.1	0.9	1.0	1,581,918.00	m3	12.5	112.7	125.2	115.3
0.0	0.0	0.0	0.00	m2	0.0	0.0	0.0	26,000.00	m2	2.8	24.8	27.5	0.00	m2	0.0	0.0	0.0	50,000.00	m2	2.0	24.8	27.5	27.5
1.4	12.2	13.5	377,190.00	m2	2.2	19.5	21.6	187,095.00	m2	1.1	9.7	10.7	81,413.00	m2	0.5	4.2	4.7	615,728.00	m2	3.7	33.3	37.0	50.5
0.0	0.0	0.0	0.00	m2	0.0	0.0	0.0	6,529.00	m2	0.6	5.4	6.0	0.00	m2	0.0	0.0	0.0	6,529.00	m2	0.6	5.4	6.0	6.0
26.0	233.8	259.8			22.0	211.6	279.6			21.8	193.8	212.6			20.6	185.3	205.9			20.3	632.1	703.1	962.8
74.2	49.4	123.6	477,333.40	m2	90.4	60.3	150.7	192,443.74	m2	36.5	24.3	60.8	115,566.20	m2	21.9	14.6	36.5	715,263.34	m2	148.8	99.2	248.0	311.6
112.2	74.8	117.0	581,179.70	m2	136.8	91.2	228.0	234,313.87	m2	53.1	36.8	91.9	150,907.80	m2	33.5	23.7	59.2	966,401.37	m2	227.5	151.6	379.1	566.1
110.1	73.4	113.5	594,533.70	m2	134.2	89.5	223.6	239,538.89	m2	54.1	36.0	90.1	155,146.20	m2	35.0	23.3	58.4	989,260.79	m2	223.3	148.8	372.1	555.6
22.5	15.0	31.6	422,558.56	m2	27.5	18.3	35.8	251,355.13	m2	11.1	7.4	15.5	166,979.31	m2	7.4	4.9	12.3	1,040,493.87	m2	45.9	30.6	76.5	114.1
128.1	83.4	213.5	19,723.00	m	156.2	104.1	260.3	7,854.78	m	63.0	42.0	105.0	6,720.00	m	53.2	35.5	88.7	34,397.70	m	272.4	181.4	454.0	663.5
25.4	16.9	42.3	38,446.00	m	36.9	26.6	51.5	15,907.40	m	12.5	8.3	20.8	13,440.00	m	10.5	7.8	17.6	68,793.40	m	53.9	36.0	89.9	132.2
43.3	28.1	72.1	202,461.00	m2	76.5	51.0	127.5	53,963.00	m2	20.4	13.6	28.4	19,162.00	m2	12.1	7.2	12.1	275,794.00	m2	104.1	69.1	173.2	243.6
515.7	343.8	859.5			452.5	435.0	1,087.5			252.6	168.4	421.0			170.8	113.9	284.6			1,075.9	717.3	1,793.2	2,652.6
0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0	0.0
37.8	37.8	75.7		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0	33.7
0.0	0.0	0.0	1.00	Not	174.3	114.3	348.6		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	174.3	114.3	318.6	318.6
0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0		Not	0.0	0.0	0.0	144.7
49.4	49.4	98.7		Not			1.00	Not	9.3	9.3	18.6		Not		1.00	Not	9.3		Not	9.3	9.3	18.6	117.3
103.2	103.2	206.5		Not			6.00	Not	63.3	63.3	126.5		Not		6.00	Not	63.3		Not	63.3	63.3	126.5	315.0
190.4	190.4	380.9			174.3	174.3	348.6			72.5	72.5	145.1			98.6	98.6	197.3			345.5	345.5	691.0	1,021.8
0.0	0.0	0.0		Not	0.0	0.0	0.0	1.00	Not	93.0	93.0	186.1		Not	0.0	0.0	0.0		Not	93.0	93.0	186.1	186.1
277.3	277.3	554.6	3.00	Not	96.5	96.5	193.0	3.00	Not	147.3	147.3	294.5		Not	6.00	Not	243.8		Not	243.8	243.8	487.6	1,042.1
277.3	277.3	554.6	3.00		96.5	96.5	193.0			240.3	240.3	480.6			0.0	0.0	0.0			336.8	336.8	673.7	1,218.2
33.9	33.9	67.8	35.00	m	29.0	29.0	58.0	37.00	m	30.6	30.6	61.3	0.00	m	0.0	0.0	0.0	72.00	m	59.6	59.6	119.2	117.1
41.2	41.2	82.4	33.00	m	20.5	20.5	41.0	0.00	m	0.0	0.0	0.0	30.00	m	11.6	11.6	23.3	63.00	m	39.1	39.1	78.2	172.6
38.3	38.3	76.6	151.00	m	78.1	78.1	156.3	113.00	m	74.0	74.0	148.0	0.00	m	0.0	0.0	0.0	294.00	m	152.1	152.1	304.3	310.9
31.1	31.1	62.2	297.00	m	129.1	129.1	258.2	0.00	m	0.0	0.0	0.0	21.00	m	12.1	12.1	24.2	325.00	m	149.2	149.2	298.3	312.4
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	50.00	m	15.5	15.5	31.1	0.00	m	0.0	0.0	0.0	50.00	m	15.5	15.5	31.1	31.1
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	26.00	m	6.7	6.7	13.3	26.00	m	6.7	6.7	13.5	13.5
12.7	12.7	25.4	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	25.4
0.0	0.0	0.0	35.00	m	1.8	1.8	3.6	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	35.00	m	1.8	1.8	3.6	3.6
163.2	163.2	326.4			257.5	257.5	515.0			120.2	120.2	240.3			37.4	37.4	74.9			415.1	415.1	830.1	1,156.6
83.3	79.2	152.5	4.00	Not	143.6	143.6	287.2	2.00	Not	154.8	154.8	309.6	2.00	Not	127.5	127.5	254.9	4.00	Not	427.9	427.9	855.8	1,144.9
0.0	0.0	0.0	0.00	Not	0.0	0.0	0.0	0.00	Not	0.0	0.0	0.0	0.00	Not	0.0	0.0	0.0	0.00	Not	0.0	0.0	0.0	0.0
83.3	79.2	152.5			143.6	143.6	287.2			154.8	154.8	309.6			127.5	127.5	254.9			427.9	427.9	855.8	1,144.9
22.8	22.8	45.7	1,209.00	m	26.1	26.1	52.3	183.00	m	3.9	3.9	7.8	153.00	m	3.3	3.3	6.7	1,547.00	m	33.4	33.4	66.7	112.4
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	26.00	m	20.6	20.6	41.3	26.00	m	20.6	20.6	41.3	41.3
31.4	31.4	62.8	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.0
0.0	0.0	0.0	118.00	m	49.2	49.2	98.3	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	118.00	m	49.2	49.2	98.3	98.3
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	27.00	m	8.0	8.0	16.1	27.00	m	8.0	8.0	16.1	16.1
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	178.00	m	21.9	21.9	43.8	178.00	m	21.9	21.9	43.8	43.8
6.0	6.0	11.9	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	11.9
193.2	193.2	386.4	20,000.00	m	241.5	241.5	483.0	8,000.00	m	96.6	96.6	193.2	7,000.00	m	84.5	84.5	169.1	35,000.00	m	422.6	422.6	845.3	1,231.7
10.0	10.0	20.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	20.0
0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	240.00	m	83.3	83.3	166.6	0.00	m	0.0	0.0	0.0	240.00	m	83.3	83.3	166.6	166.6
14.9	14.9	29.8	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	0.00	m	0.0	0.0	0.0	29.8
278.3	278.3	556.6			316.7	316.7	633.5			103.9	103.9	207.7			138.4	138.4	276.9			639.0	639.0	1,278.0	1,814.6
14.4	21.0	35.9	1.00	EA	9.0	15.7	24.6	1.00	EA	10.0	15.1	25.1	1.00	EA	3.6	8.5	12.1	3.00					

