

TRIBHUWAN UNIVERSITY
 INSTITUTE OF ENGINEERING
 PULCHOWK CAMPUS
DEPARTMENT OF CIVIL ENGINEERING

SURVEY INSTRUCTION COMMITTEE
RL TRANSFER TO TRIANGULATION STATIONS

Turning Point	Station/Chainag	BS	FS	Rise	Fall	Elevation	Correction	Corrected Elevation	Remarks
	A	0.864				1304.866	0.000	1304.866	0
TP1		0.968	1.688		0.824	1304.042	0.000	1304.042	1
TP2		1.150	1.650		0.682	1303.360	0.000	1303.360	2
TP3		0.851	1.763		0.613	1302.747	-0.001	1302.746	3
TP4		1.124	1.855		1.004	1301.743	-0.001	1301.742	4
	D	1.607	1.627		0.503	1301.240	-0.001	1301.239	5
TP5		1.804	1.032	0.575		1301.815	-0.001	1301.814	6
TP6		1.720	1.005	0.799		1302.614	-0.001	1302.613	7
TP7		1.518	0.972	0.748		1303.362	-0.002	1303.360	8
TP8		1.901	1.019	0.499		1303.861	-0.002	1303.859	9
	A		0.894	1.007		1304.868	-0.002	1304.866	10
Σ		13.507	13.505	3.628	3.626				

Arithmetic Check:	
$\Sigma BS - \Sigma FS$	0.002
$\Sigma Rise - \Sigma Fall$	0.002

Discrepancy	0.002
Loop Perimeter (m)	85.688
Required Precision	0.007025403

Turning Point	Station/ Chainag	BS	FS	Rise	Fall	Elevation	Correction	Corrected Elevation	Remarks
	A	1.184				1304.866	0.000	1304.866	0
TP1		1.187	1.724		0.540	1304.326	0.000	1304.326	1
TP2		0.992	1.672		0.485	1303.841	0.001	1303.842	2
TP3		1.742	1.498		0.506	1303.335	0.001	1303.336	3
TP4		1.596	1.393	0.349		1303.684	0.002	1303.686	4
TP5		1.676	1.377	0.219		1303.903	0.002	1303.905	5
	C	1.174	1.089	0.587		1304.490	0.002	1304.492	6
TP6		0.976	1.695		0.521	1303.969	0.003	1303.972	7
TP7		1.426	1.602		0.626	1303.343	0.003	1303.346	8
TP8		1.939	1.335	0.091		1303.434	0.004	1303.438	9
TP9		1.263	1.744	0.195		1303.629	0.004	1303.633	10
	F	1.143	1.420		0.157	1303.472	0.004	1303.476	11
TP10		1.118	1.855		0.712	1302.760	0.005	1302.765	12
TP11		1.188	1.631		0.513	1302.247	0.005	1302.252	13
TP12		1.181	1.806		0.618	1301.629	0.006	1301.635	14
	G	1.262	1.283		0.102	1301.527	0.006	1301.533	15
TP13		1.751	1.084	0.178		1301.705	0.006	1301.711	16
TP14		1.481	1.217	0.534		1302.239	0.007	1302.246	17
TP15		1.643	0.721	0.760		1302.999	0.007	1303.006	18
TP16		1.434	1.183	0.460		1303.459	0.008	1303.467	19
TP17		1.212	1.100	0.334		1303.793	0.008	1303.801	20
TP18		1.642	1.735		0.523	1303.270	0.008	1303.278	21
TP19		1.697	0.975	0.667		1303.937	0.009	1303.946	22
TP20		0.918	1.154	0.543		1304.480	0.009	1304.489	23
TP21		1.181	1.721		0.803	1303.677	0.010	1303.686	24
TP22		1.122	1.319		0.138	1303.539	0.010	1303.549	25
TP23		1.866	1.542		0.420	1303.119	0.010	1303.129	26
TP24		1.756	1.081	0.785		1303.904	0.011	1303.915	27
	A		0.805	0.951		1304.855	0.011	1304.866	28

Σ		38.750	38.761	6.653	6.664				
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Arithmetic Check:	
$\Sigma BS - \Sigma FS$	-0.0111
$\Sigma Rise - \Sigma Fall$	-0.0111

Discrepancy	-0.0111
Loop Perimeter (m)	249.492
Required Precision	0.011987802

Turning Point	Station/ Chainag	BS	FS	Rise	Fall	Elevation	Correction	Corrected Elevation	Remarks
	B	1.630				1304.371	0.000	1304.371	0
TP1		1.525	0.779	0.851		1305.222	-0.001	1305.221	1
TP2		0.997	1.208	0.317		1305.539	-0.002	1305.537	2
TP3		0.850	1.930		0.933	1304.606	-0.003	1304.603	3
	E	0.927	0.783	0.067		1304.673	-0.004	1304.669	4
TP4		1.717	0.949		0.022	1304.651	-0.004	1304.646	5
TP5		0.610	0.626	1.091		1305.742	-0.005	1305.737	6
TP6		0.895	1.579		0.969	1304.773	-0.006	1304.767	7
TP7		0.872	1.503		0.608	1304.165	-0.007	1304.158	8
	B		0.658	0.214		1304.379	-0.008	1304.371	9
Σ		10.023	10.015	2.540	2.532				

Arithmetic Check:	
$\Sigma BS - \Sigma FS$	0.008
$\Sigma Rise - \Sigma Fall$	0.008

Discrepancy	0.008
Loop Perimeter (m)	128.524
Required Precision	0.008604059