Tribhuwan University
Institute of Engineering
Central Campus, Pulchowk
Department of Civil Engineering
Survey Instruction Committee

Level Transfer

TBM5 to M17 [Forward]

Stations		BS		Mean	Mean c		FS			c	Dico	Fall	Stadia	Horizontal
Chainage	Тор	Mid	Bottom	BS	3	Тор	Mid	Bottom	FS	3	Rise	FdII	Interval	Distance
TBM5	0.908	0.835	0.762	0.835	0.146								0.146	14.6
TP1	1.148	1.078	1.009	1.078	0.139	1.741	1.672	1.600	1.671	0.141		0.836	0.280	28.0
TP2	1.080	1.014	0.948	1.014	0.132	1.663	1.598	1.532	1.598	0.131		0.519	0.263	26.3
TP3	1.275	1.202	1.131	1.203	0.144	1.529	1.460	1.390	1.460	0.139		0.446	0.283	28.3
TP4	1.412	1.340	1.268	1.340	0.144	1.440	1.365	1.290	1.365	0.150		0.162	0.294	29.4
TP5	1.334	1.262	1.190	1.262	0.144	1.350	1.280	1.209	1.280	0.141	0.060		0.285	28.5
TP6	1.350	1.291	1.234	1.292	0.116	1.461	1.390	1.318	1.390	0.143		0.128	0.259	25.9
M17						1.312	1.250	1.188	1.250	0.124	0.042		0.124	12.4
Σ				8.024					10.013		0.102	2.091	1.934	193.4

Arithmetic Check:

Antimical check.						
	∑BS - ∑FS = -1.989					
	Σ Rise - Σ Fall = -1.989					

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M17 to TBM5 [Backward]

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Stations		BS		Mean s		FS			Mean	ا ،	Rise	Fall	Stadia	Horizontal
Chainage	Тор	Mid	Bottom	BS	,	Тор	Mid	Bottom	FS	,	Nise	I all	Interval	Distance
M17	1.440	1.364	1.288	1.364	0.152								0.152	15.2
TP1	1.504	1.440	1.376	1.440	0.128	1.500	1.425	1.350	1.425	0.150		0.061	0.278	27.8
TP2	1.350	1.288	1.225	1.288	0.125	1.355	1.295	1.235	1.295	0.120	0.145		0.245	24.5
TP3	1.311	1.251	1.191	1.251	0.120	1.395	1.334	1.272	1.334	0.123		0.046	0.243	24.3
TP4	1.514	1.454	1.392	1.453	0.122	1.305	1.250	1.195	1.250	0.110	0.001		0.232	23.2
TP5	1.593	1.530	1.468	1.530	0.125	1.148	1.085	1.024	1.086	0.124	0.368		0.249	24.9
TP6	1.574	1.510	1.447	1.510	0.127	1.105	1.045	0.985	1.045	0.120	0.485		0.247	24.7
TP7	1.437	1.390	1.343	1.390	0.094	1.090	1.030	0.970	1.030	0.120	0.480		0.214	21.4
TBM5						0.812	0.766	0.720	0.766	0.092	0.624		0.092	9.2
Σ				11.227					9.230		2.103	0.107	1.952	195.2

Arithmetic Check

Antinnetic Cit	eck.
	∑BS - ∑FS = 1.996
	∑Rise - ∑Fall = 1.996

Mean Height Difference = -1.993
Discrepancy = 0.007
Required Precision = 0.015

∴ RL(M17) = RL(TBM5) -1.993 = 1333.394 -1.993 = 1331.401