TRIBHUWAN UNIVERSITY INSTITUTE OF ENGINEERING PULCHOWK CAMPUS

DEPARTMENT OF CIVIL ENGINEERING

SURVEY INSTRUCTION COMMITTEE Observation of Angle at Bridge Site by Total Station

			HCR Observation		Horizontal	Corrected Mean Hz.	
St.	To.	Face	d	m	s	Angle	Angle of two sets
~ · ·	100	L	0	0			Tingle of two sets
	F	R	180	0			
		L	66	11	15		
С	Е	R	246	11	31	66°11'11"	66°11'14"
		L	66	11	15		
	Е	R	246	11	31		
		L	119	33	19		
С	В	R	299	33	37	53°22'5"	53°22'9"
		L	0	0	0		
	G	R	179	59	57		
		L	80	9	46		
F	Е	R	260	9	41	80°9'45"	80°9'50"
		L	80	9	46		
	Е	R	260	9	41		
		L	148	41	45		
F	С	R	328	41	34	68°31'56"	68°31'59"
		L	0	0	0		
	Е	R	180	0			
		L	73	2	20		
G	F	R	253	2	32	73°2'23"	73°2'28"
		L	73	44	12		
	С	R	253	45	0		
		L	124	5	1		
В	Е	R	304	5		50°20'46"	50°20'50"
		L	0	0			
	В	R	180	0	0		
_		L	76				- 20.7
Е	С	R	256			76°16'57"	76°17'1"
	~	L	76				
	С	R	256				
		L	121	33		450161458	450161400
Е	F	R	301	33		45°16'45"	45°16'48"
	-	L	121	33			
	F	R	301	33	45		

		L	148	21	14		
E	G	R	328	21	24	26°47'37"	26°47'42"

Triangle CBE				
Sum of internal angles	179°59'48"			
Theoretical sum of internal angles	180°			
Error(-ve)	0°0'12"			
Permissible error (1'√N)	0°1'44"			
Correction (+ve)	0°0'4"			

Triangle CEF				
Sum of internal angles	179°59'52"			
Theoretical sum of internal angles	180°			
Error(-ve)	0°0'8"			
Permissible error (1' \sqrt{N})	0°1'44"			
Correction (+ve)	0°0'3"			

Traingle EFG	
Sum of internal angles	179°59'45"
Theoretical sum of internal angles	180°
Error(-ve)	0°0'15"
Permissible error (1' \sqrt{N})	0°1'44"
Correction (+ve)	0°0'5"