MIT WORLD PEACE UNIVERSITY

Basic Civil Engineering
First Year B. Tech, Trimester 3
Academic Year 2021-22

STUDY AND USE OF AUTO LEVEL, AND FINDING RL USING DIGITAL LEVEL

EXPERIMENT NO. 2 AND 3

Prepared By

109054. Krishnaraj Thadesar Division 9 Batch I3

May 12, 2022

All Character Angular and Character (School Character) (School Charact	EXPERIMENT -2,3
(*)	A?n:
	To find R.L at of at least 15-20 points by using collimation, plane method and rice and fall method.
(*)	Theory 1
	Line of Collination:
	I maginaly line joining intersection of cross hairs of diapheagram diaphear to center of object glass: and its continuation.
(2)	Anis of Telescope: Line joining optical center of object glass and center of eyepicu.
(3)	Anis of bubble;
	Straight line tangential to the longitudinal curves at of the level tube at the centre of the tube: when telescope is perfectly horizontal.
(4)	Vertical Anis: Anis about which the telescope can be satisfied in a horizontal plane.
5	Adjustment of dumpty level
A.	Permanent adjustment:
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	station	B.5	I.S	F.S	Height (m)	R.L	Remagik.			
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	5		2.850		1 -43	498 345				
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	11		1.690			499.816				
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	Asthmatic check: \SBS - SFS = RL-RLF									
	=> 2.76 - 3075 =-0.315] (equal)									
	= 499.685 - 500 = -0-315									
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Rainbow

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7 1.289 0.276 499.70. 8 1.300 0.01 499.695 9 1.740 0.185 499.61 10 1.595 0.185 499.61 11 1.690 0.216 499.826 $1L$ 1.310 0.141 499.685 $\Sigma ES = 2.76$; $\Sigma FS = E 3.075$; $\Sigma FM = L.077$; $\Sigma FM = L.077$;	1	6	1.565			1.085			
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$\sum BS = 2.76;$ $\sum FS = 3.075;$ $\sum Risc = 1.762 ;$ $\sum FW = 2.077;$ $\sum FW = 5.077;$				1.690		0.216			
$\Sigma BS = 2.76;$ $\Sigma FS = 3.075;$ $\Sigma Rise = 1.762 ;$ $\Sigma FW = 2.077;$ $\Sigma BS - \Sigma FS = -0.315$	T	14			1.310			0.141	499.685
I Rise - E Fall = -0.315. 2 equal.		ZF ZP ZP	ise Fau 35 -	= = 2 = 2	3.0 1.762 -:077	- ; - ; = -0.3			

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