NATIONAL UNIVERSITY OF SINGAPORE

Doc No. CIBARAExp014										
Тур	e: Experiment / Equipment		Acti	vity-Based Risk Assessment Fo	rm					
	Name of Department	Physics		Location of Lab		S7-01-01				
	Name of Laboratory	CIBA Clean Room		Name of PI		Mark Breese				
	Name of Researcher/LO Dang Zhiya, Mallikarjuna Rao Motapothula		_Name of Activity/Experiment		Silicon etching of selected areas					
	1. Hazard Identification			2. Access the Risk		sk		3.1	Risk Control	
No	Description/Details of Steps in Activity	Hazards	Possible Accident / III Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
2	Clean Room. 1. Spin Coating Machine for depositing ProTek coatings containing PGME (Propylene glycol monomethyl ether). Heating to 200 degrees to cure resists.	flammable liquids.	May cause skin and eye irritation, headaches, dizziness	Measures to avoid inhalation. 2. Wear suitable eye protection and lab coat. 3. Store in well-ventilated location Keep away from heat and flames.	2	1	2			
		Flammble liquids.	May cause skin burn.	Keep away from heat and flames.	2	1	2			
3	UV exposure to pattern the photoresist.	UV exposure to eye.	UV exposure to eye.	Wear UV goggles. 2. Standard UV procedure.	2	1	2			
	Using ethyl lactate to develop the patterned photoresist.	Toxic liquids.	Inhalation of toxic vapor.	Operate in fume hood. 2. Wear suitable eye protection and lab coat.	2	1	2			
5							0			
- 6 - 7							0			
8							0			
Conducted By Dang Zhiya Approved By Name Mark Breese Signature Approval date Next Revision date										
				_				(Maximum 3 years)		

1