National University of Singapore

Doc No. : CIBA/RA/Eq/CIBA/RA/Eq	Experiment-Ba	ased Risk Assessment Form		
Name of Department Name of Laboratory	PHYSICS CIBA Optical Materials and Devices Lab	Location of lab Name of PI	S11-02-09 Asst Prof Andrew Bettiol	
Name of Researcher/LO	Turaga Shuvan Prashant, Vanga Sudheer Kumar	Name of Activity/Experiment	Supercontinuum Laser Source	

No	Desription/Details of Steps in Activity	Hazards	Possible Accident / ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)		Likelihood (Probability)		Additional Risk Control	Person Responsible	By (Date)
1		Laser Light	can cause permanent blindness. (b urning of corneas	All users to wear laser googles of appropriate wavelength, microscope eyepiec e is permanantly blocked. Black non-reflective boards barricading areas where laser beams are aligned. Keep the MIRA cavity closed at all time. Use IR card for alignment.	2	1	2			
2	Laser Alignment	Fire hazard	Radiation 2. Skin burn by laser beam	Always close the laser shutter when the laser is not in use Reduce the power to minimum during lase ralignment Cover the beam path when laser is in use No flammable substances or paper should be placed in the beam path. Use metal shields to block relected/scatter ed light	2	1	2			
3		Reflected/ Scattered laser light	permanent blindness.	No jewellery or wrist watch is allowed when working with lasers. LASER IN USE' sign lighted when laser work is carried out.	1	1	1			
4		Overloading of laser power source		Label stating maximum allowed current allowed for each power supply. Do not open power supply	1	1	1			
5		Focused laser light using objectives	paper.	Use IR Card for alignment instead of paper. Reduce the laser power down to 50 mW before alignment.	1	1	1			
	Conducted By	Tur	aga Shuvan Prashant anga Sudheer Kumar	Approved By Name		Asst Prof	Andrew F	Settiol .		
	Approval date Next Revision Date (Maximum 3 years)				-					