

Register of Environmental Aspects

(EAR-01)

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[illegible]

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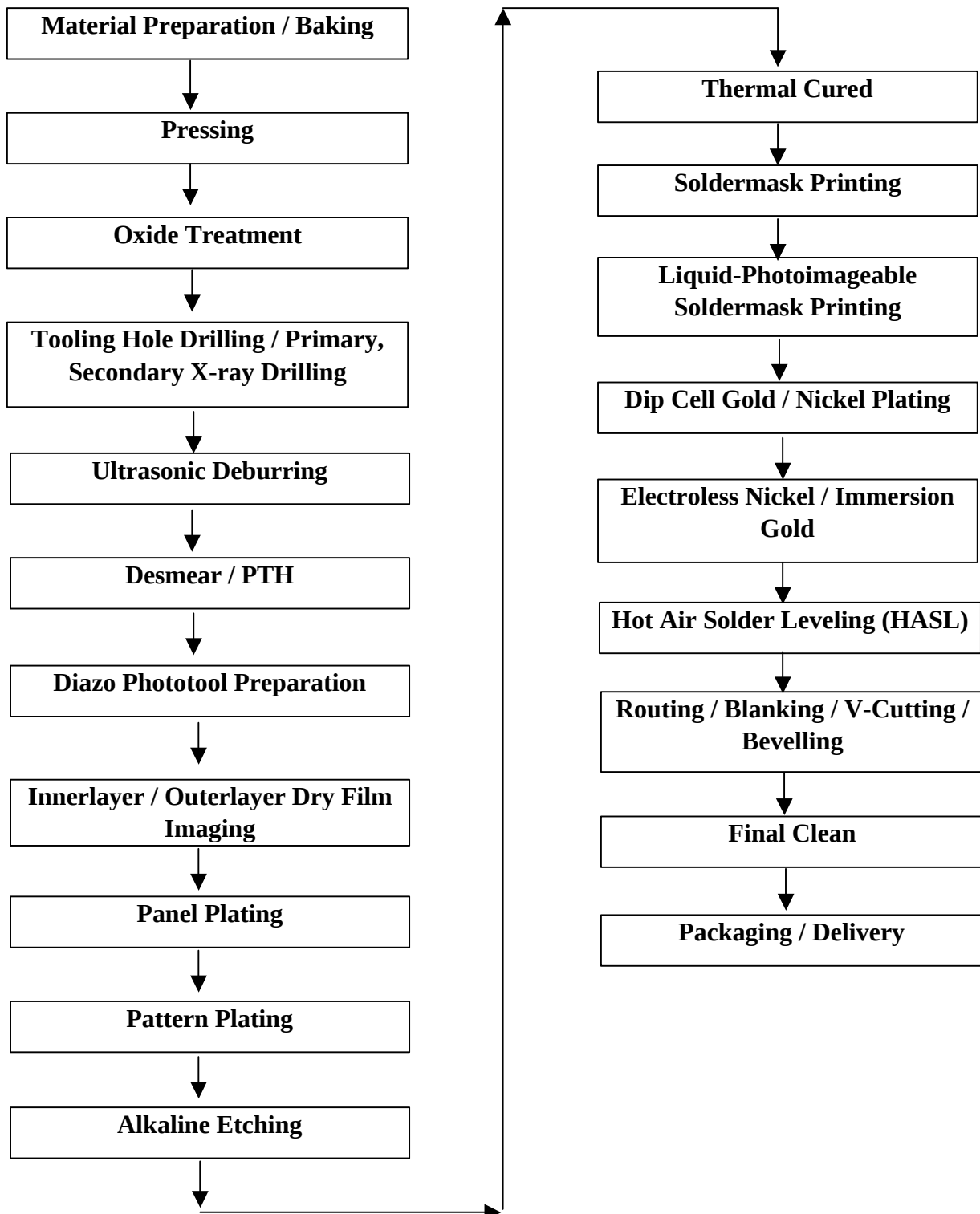
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Note: The environmental aspect (EA) tables are presented in the order of office activities as the first item because:

- 1) this arrangement is a well-accepted and common practice for EMS professionals to prepare the EA register
- 2) the EAs for office activities are applicable to all staff, which is important for promoting staff awareness

However, the significant EAs (SEAs) for production processes would normally be the most important area to address relevant operational controls



E. A. Reference	Environmental Aspects	Potential Environmental Impacts										Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns			
Office Area (Hong Kong)																					
101-01	Use of Paper (including letterhead)	✓													3	3	3	27	Y	EI-01	
101-02	Use of Envelops	✓													1	1	1	1	N		
101-03	Use of Stationery and Office Equipment	✓													1	5	1	5	N		
101-04	Use of Toner Cartridges	✓													3	3	3	27	Y	EI-01	
101-05	Electricity Consumption for Lighting		✓									✓			1	3	3	9	N		
101-06	Electricity Consumption for Air Conditioning		✓									✓			1	3	3	9	N		
101-07	Electricity Consumption for Office Equipment and Other Purposes		✓									✓			1	3	3	9	N		
101-08	Water Consumption (for drinking, cleaning, flushing)	✓										✓			1	1	1	1	N		
101-09	Use / Release of CFC Substances (e.g. refrigerants for air conditioning units)	✓				✓				✓	✓		H1, H2		3	3	3	27	Y	EI-05	
101-10	Wastewater discharge (from pantry, flushing)						✓								1	3	3	9	N	EI-06	
101-11	Generation of Ground Level Ozone (from photocopiers and laser printers)					✓				✓	✓		H5, H6		1	5	5	25	N		
101-12	Indoor Air Ventilation					✓					✓		H5, H6		3	3	3	27	Y	EI-05	
101-13	Noise from Office Equipment							✓							1	5	5	25	N		
101-14	Disposal of Waste (general refuse)			✓							✓		H3		3	3	3	27	Y	EI-04	
101-15	Disposal of Toner Cartridges				✓						✓		H3		3	3	3	27	Y	EI-04	
101-16	Disposal of Fluorescent Tubes				✓						✓		H3		3	3	3	27	Y	EI-04	
101-17	Disposal of Batteries				✓						✓		H3		3	3	3	27	Y	EI-04	
101-18	Disposal of Recyclable Waste (paper, plastic, aluminium cans)			✓							✓		H3		3	3	3	27	Y	EI-04	
101-19	Pest control - use of insecticide by subcontractor	✓			✓	✓			✓	✓	✓		H7		1	3	3	9	N		
101-20	Cleaning and waste collection services provided by subcontractors	✓		✓	✓		✓			✓					3	3	3	27	Y	EI-02	
101-21	Potential fire						✓			✓					5	1	5	25	N	EP-05	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts										Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns			
Office Area (China)																					
102-01	Use of Paper (including letterhead)	✓													1	1	3	3	N		
102-02	Use of Stationary	✓													1	1	3	3	N		
102-03	Use of Envelops	✓													1	5	1	5	N		
102-04	Use of Toner Cartridges	✓													1	1	3	3	N		
102-05	Electricity Consumption		✓								✓	F5	✓		1	3	3	9	N		
102-06	Water Consumption (for drinking, cleaning, flushing)										✓	F5	✓		3	3	3	27	N	EI-09	
102-07	Generation of Ground Level Ozone (from photocopiers and laser printers)						✓								1	1	3	3	N		
102-08	VOC Emitted from Pens and Markers						✓			✓					1	3	1	3	N		
102-09	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
102-10	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
102-11	Wastewater discharge (from pantry, flushing)			✓							✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06	
Canteen (China Factory)																					
103-01	Use of Beverages, Meat, Vegetables and Fruits	✓													1	5	3	15	N		
103-02	Use of Oil and Seasonings	✓													1	5	1	5	N		
103-03	Use of Water	✓									✓	F5			3	3	3	27	Y		
103-04	Use of Disposable Tableware (e.g. softwood chopsticks, plastic spoon)	✓													1	5	3	15	N		
103-05	Use of Detergents and Sanitisers	✓									✓	F11			1	5	1	5	N		
103-06	Use of Pesticides	✓													3	3	1	9	N		
103-07	Discharge of Refrigerant						✓			✓	✓	A5, A6, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05	
103-08	Discharge of Oil/Grease in the Effluent							✓		✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	5	45	Y	EI-06	

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103-09	Discharge of Wastewater						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	5	45	Y	EI-06	
103-10	Fumes Emissions					✓			✓	✓	✓	A1, A2, A7, A8, A10, A11, A12, F1-F3, F9, F10, F12			3	3	3	27	Y	EI-05	
103-11	Disposal of Food Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
103-12	Disposal of Used Tableware Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
103-13	Disposal of Oil/ Grease Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
103-14	Disposal of Containers			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
Evaluation of Suppliers and Contractors																					
104-01	Shortlisting/selection of contractors with environmental concerns	✓	✓	✓	✓	✓	✓	✓	✓	✓		G1-G4			3	3	3	27	Y	EI-02	
104-02	Ongoing appraisal of selected contractors on their environmental performance	✓	✓	✓	✓	✓	✓	✓	✓	✓		G1-G4			3	3	3	27	Y	EI-02	
104-03	Shortlisting/selection of suppliers with environmental concerns	✓	✓	✓	✓	✓	✓	✓	✓	✓		G1-G4			3	3	3	27	Y	EI-02	
104-04	Ongoing appraisal of selected suppliers on their environmental performance	✓	✓	✓	✓	✓	✓	✓	✓	✓		G1-G4			3	3	3	27	Y	EI-02	

Reviewed and Approved by : Ma Hung

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		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
Deionized Water																				
201-01	Use of Resin	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-10
201-02	Use of Ion Exchange Columns	✓													1	1	1	1	N	
201-03	Use of Chemicals for Twin Bed, Mix bed, Softener Regeneration and Cleaning RO System	✓									✓	E1-E4, F1-F4, F9, F10, F14			3	3	3	27	Y	EI-10
201-04	Use of Filter Cartridges	✓													1	1	1	1	N	
201-05	Operation of Pumps, Mixers, Blowers and Compressors							✓							3	5	1	15	N	
201-06	Discharge of Rejected Effluent from RO System						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
201-07	Discharge of Wastewater from the Resin Regeneration						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
201-08	Discharge of Wastewater from Cleaning RO Membrane						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
201-09	Discharge of Wastewater from the Backwashing of the Sand or GAC Filter						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
201-10	Disposal of Spent Chemical				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			5	3	3	45	Y	EI-04

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201-11	Disposal of Filter Cartridges			✓								C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
201-12	Disposal of GAC Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
201-13	Disposal of Drums, Bags and Containers				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
201-14	Chemical Leakage and Spillage					✓	✓			✓	✓				5	1	3	15	N	EP-05
Air Scrubber																				
202-01	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
202-02	Use of Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
202-03	Use of Packing Material	✓													1	1	5	5	N	
202-04	Use of Chemicals (Deformer)	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-10
202-05	Use of Lubricant	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-10
202-06	Operation of Blowers							✓							3	5	1	15	N	
202-07	Operation Pumps							✓							3	5	1	15	N	

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		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
202-08	Discharge of Wastewater from Process Cleaning						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
202-09	Fumes Emitted from Fumes Hood and Ducts					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F3, F9, F10, F12			3	3	3	27	Y	EI-05
202-10	Disposal of Spent Lubricant				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
202-11	Disposal of Spent Chemicals				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
202-12	Disposal of Used Packing Material			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
202-13	Disposal of Used Drums and Containers				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
202-14	Chemical Spillage and Leakage						✓			✓	✓				5	1	3	15	N	EP-05
Air Conditioning																				
203-01	Use of Refrigerant R22	✓													5	1	3	15	N	
203-02	Use of Lubricant	✓										E1-E4, F1-F4, F9, F10, F12								
											✓	F11			3	3	3	27	Y	EI-10
203-03	Use of Detergent	✓									✓				1	3	1	3	N	
203-04	Diesel Consumption	✓	✓											✓	3	1	3	9	N	EI-09

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
203-05	Operation of Compressors							✓							3	5	1	15	N	EI-07
203-06	Operation of Blowers							✓							3	5	1	15	N	EI-07
203-07	Operation of Pumps							✓							3	5	1	15	N	EI-07
203-08	Operation of Cooling Towers							✓							3	5	1	15	N	EI-07
203-09	Operation of Back-up Power Generator							✓							3	5	1	15	N	EI-07
203-10	Discharge of Wastewater from Cleaning Such As Washing Filters, etc.						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-06
203-11	Dust Emitted from Cleaning the Air Ducts					✓									1	3	1	3	N	EI-05
203-12	Discharge of Ozone Depleting Substances					✓				✓	✓	A5, A6, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
203-13	Exhaust Emissions					✓				✓					1	3	1	3	N	EI-05
203-14	Disposal of Air Filters			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
203-15	Disposal of Spent Lubricant				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
203-16	Disposal of Chemical Waste from Maintenance				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	5	3	45	Y	EI-04
203-17	Dispose of Drums and Containers				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
203-18	Chemical Spillage and Leakage					✓	✓		✓	✓	✓				5	1	3	15	N	EP-05
Parking Lot																				

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		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
204-01	Engine Ignition and Tuning							✓							1	5	1	5	N	
204-02	Vehicle Maintenance	✓					✓			✓					3	3	1	9	N	
204-03	Fuel Consumption	✓	✓											✓	1	1	3	3	N	EI-09
204-04	Exhaust Emissions					✓				✓	✓	A3, A4, A12, A13, F1-F4, F9, F10, F12			3	3	5	45	Y	EI-05
204-05	Generation of Brake Fluid and Pads			✓			✓			✓					3	3	1	9	N	
204-06	Generation of Coolants						✓			✓					3	3	1	9	N	
204-07	Generation of Spent Lubricant						✓			✓					3	3	1	9	N	
204-08	Generation of Spent Engine Oil						✓			✓					3	3	1	9	N	
204-09	Disposal of Brake Fluid and Pads Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
204-10	Disposal of Coolant Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
204-11	Disposal of General Chemical Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
204-12	Disposal of Spent Engine Oil			✓							✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
204-13	Disposal of Spent Lubricant				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

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204-14	Disposal of Battery			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Machine Shop																				
205-01	Use of Paints	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-10
205-02	Use of Lubricant	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-10
205-03	Use of Organic Solvents	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
205-04	Use of Hardware	✓													5	5	1	25	N	
205-05	Use of Plastic Bar, Sheets and Pipes	✓													1	1	1	1	N	
205-06	Use of Metal Bars, Sheets and Pipes	✓													1	1	1	1	N	
205-07	Use of Adhesives	✓													1	3	1	3	N	
205-08	Fumes Generated from Welding					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
205-09	Dust Generated from Grinding or Routing					✓					✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05

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205-10	Vapour Generated from Paint Spraying					✓			✓	✓					3	3	1	9	N	
205-11	Vapour Generated from Paints, Solvents or Adhesives					✓			✓	✓					1	3	1	3	N	
205-12	Operation of Compressors							✓			✓				3	3	3	27	Y	EI-07
205-13	Operation of Drilling and Cutting Machines							✓			✓				3	3	3	27	Y	EI-07
205-14	Disposal of General Refuse			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-15	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-16	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-17	Disposal of Metal Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-18	Disposal of General Chemical Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-19	Disposal of Spent Lubricant				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
205-20	Disposal of Used Drums and Containers				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
205-21	Spillage and Leakage of Chemicals						✓			✓					5	1	3	15	N	EP-05

Reviewed and Approved by : Ma Hung

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
General Good Storage																				
301-01	Copper Foil and Sheet	✓												1	3	3	9	N		
301-02	Tin Bar or Sheet	✓												1	3	3	9	N		
301-03	Stainless Steel Plate	✓												1	3	3	9	N		
301-04	Fibre Glass Board	✓												1	3	3	9	N		
301-05	Laminates	✓												1	3	3	9	N		
301-06	Timber	✓												1	3	3	9	N		
301-07	Paper and Corrugated Paper	✓												1	3	3	9	N		
301-08	Expanded Polystyrene	✓												1	3	3	9	N		
301-09	Plastic Bags	✓												1	3	3	9	N		
301-10	Drills	✓												1	3	3	9	N		
301-11	Pregreg	✓												1	3	3	9	N		
301-12	Stationary	✓												1	3	3	9	N		
301-13	Hardware	✓												1	3	3	9	N		
301-14	Disposal of Cardboard and Wooden Planks			✓						✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
Chemical Storage																				
302-01	Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
302-02	Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
302-03	Oxidising Agents	✓												1	3	3	9	N		
302-04	Alcohol	✓												1	3	3	9	N		
302-05	Organic Solvents	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
302-06	Heavy Metal Solutions	✓												3	3	1	9	N		
302-07	Precious Metal Solutions	✓												3	3	1	9	N		
302-08	Copper Solutions	✓												1	3	1	3	N		
302-09	Tin Solutions	✓												1	3	1	3	N		

Table 3 - Storage

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
302-10	Corrosive Chemicals (Peroxides)	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
302-11	Sweller P Solution	✓													1	3	1	3	N	
302-12	Reduction Conditioner	✓													1	3	1	3	N	
302-13	Acidic and Alkine Etchant Solution	✓									✓	E1-E4, F1-F4, F9, F10, F12			5	5	1	25	Y	EI-08, EI-10
302-14	Cleaner Solution	✓													1	3	3	9	N	
302-15	Reducer Solution	✓													1	3	1	3	N	
302-16	Potassium Bicarbonate Solution	✓													1	3	1	3	N	
302-17	NaH ₂ PO ₂ and NaHPO ₃ Solution	✓													1	3	1	3	N	
302-18	NPS Solutions	✓													1	3	1	3	N	
302-19	Disposal of Sand Soaked with Chemicals				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
302-20	Disposal of Cardboard and Wooden Planks			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
302-21	Chemical Spillage and Leakage					✓	✓			✓					5	1	3	15	N	EP-05
Dangerous Goods Storage																				
303-01	Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
303-02	Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
303-03	Alcohol	✓													1	1	3	3	N	
303-04	Organic Solvents	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
303-05	Corrosive Chemicals (Peroxides)	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10

Table 3 - Storage

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
303-06	Disposal of Sand Soaked with Chemicals				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
303-07	Chemical Spillage and Leakage					✓	✓			✓					5	1	3	15	N	EP-05
Solid Waste Storage																				
304-01	General Refuse			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-02	Cardboard and Wooden Planks			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-03	Demolished Machinery and Parts			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-04	PCB Scraps			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-05	Aluminium Cans			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-06	Steel Cans			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-07	Waste Drums, Bags and Containers			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-08	Packaging Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
304-09	Paper			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04, EI-08
Cumulative																				
305-01	Electricity Consumption		✓								✓	F5	✓		3	3	3	27	Y	EI-09, O&T-2006-1

Table 3 - Storage

E. A. Reference	Environmental Aspects	Potential Environmental Impacts										Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns			
305-02	Water Consumption	✓									✓	F5	✓		3	3	3	27	Y	EI-09, O&T-2006-2	
305-03	Fuel Consumption	✓	✓								✓	F5		✓	3	3	3	27	Y	EI-09	
305-04	Cleaning and Sanitation	✓					✓								1	5	5	25	N		
305-05	Pest Control	✓													1	3	1	3	N		
305-06	Disposal of General Refuse			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
305-07	Disposal of Packaging Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
305-08	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
305-09	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	
305-10	Disposal of Metal Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04	

Reviewed and Approved by : Ma Hung

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
General																				
401-01	Use of Lubricant	✓													1	1	1	1	N	
401-02	Use of Hydraulic Oil	✓													1	3	3	9	N	
401-03	Use of Vacuum Pump Oil	✓													1	3	1	3	N	
401-04	Use of Plastic Bags	✓													1	5	3	15	N	
401-05	Use of Rags	✓													1	5	1	5	N	
401-06	Use of Air Filter Cartridges	✓													1	3	3	9	N	
401-07	Use of Water Filter Cartridges	✓													1	3	3	9	N	
401-08	Electricity Consumption		✓								✓	F5	✓		3	3	3	27	Y	EI-09, O&T-2006-1
401-09	De-ionized Water Consumption	✓						✓			✓	F5			1	5	5	25	N	
401-10	Operation of Pumps							✓							3	3	3	27	Y	EI-07
401-11	Operation of Blowers							✓							3	3	3	27	Y	EI-07
401-12	Operation of Ventilation Fans							✓							3	3	3	27	Y	EI-07
401-13	Operation of Compressors							✓							3	3	3	27	Y	EI-07
401-14	Discharge of Wastewater						✓			✓		D1-D9, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-06
401-15	Disposal of Spent Lubricant				✓					✓		C1-C7, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-04
401-16	Disposal of Spent Hydraulic Oil				✓					✓		C1-C7, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-04
401-17	Disposal of Spent Chemicals											C1-C7, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-04
401-18	Disposal of Used Drums and Containers											C1, C6, C7, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-04

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
401-19	Disposal of Packaging Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
401-20	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
401-21	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
401-22	Disposal of Used Filter Cartridges			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
401-23	Chemical Spillage and Leakage						✓			✓					5	1	3	15	N	EP-05
Material Preparation/ Baking																				
402-01	Use of Circular Cutting Plates	✓													5	1	1	5	N	
402-02	Use of Guillotine Blades	✓													5	1	1	5	N	
402-03	Use of Punch for Corner Cutting	✓													5	1	1	5	N	
402-04	Use of PC Trimmer Cutter Spans	✓													5	1	1	5	N	
402-05	Operation of Rotary Cutters							✓							3	5	3	45	Y	EI-07
402-06	Operation of Mini Press							✓							3	5	3	45	Y	EI-07
402-07	Operation of Trimming Machines							✓							3	5	3	45	Y	EI-07
402-08	Dust Generated from Cutting and Trimming							✓							3	5	3	45	Y	EI-07
402-09	Vapour Generated from Heating					✓									3	3	3	27	Y	EI-05
402-10	Disposal of Scraps Generated from Cutting and Trimming			✓							✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Pressing																				
403-01	Use of Prepreg	✓													1	5	5	25	N	
403-02	Use of Stainless Steel Separator	✓													5	3	1	15	N	
403-03	Use of Tedlar Film	✓													1	3	1	3	N	
403-04	Use of Telstops Ring	✓													1	3	1	3	N	
403-05	Use of Cutter	✓													5	3	1	15	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
403-06	Use of Copper Foil	✓													5	3	1	15	N	
403-07	Use of PTFE Coated Pin	✓													5	3	1	15	N	
403-08	Operation of Press							✓							3	5	3	45	Y	EI-07
403-09	Operation of Trimming Machines							✓							3	5	3	45	Y	EI-07
403-10	VOC Emitted from Heating					✓				✓					3	3	3	27	Y	EI-05
403-11	Dust generated from Trimming and Pressing					✓									3	3	3	27	Y	EI-05
403-12	Disposal of Scraps Generated from Trimming			✓							✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Oxide Treatment																				
404-01	Use of Sodium Persulphate	✓													1	3	3	9	N	
404-02	Use of Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
404-03	Use of Enplate	✓													1	3	3	9	N	
404-04	Operation of Stirrers							✓							1	3	3	9	N	
404-05	VOC Emitted from Treatment Line					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
404-06	Acidic Vapour Emitted from Treatment Line					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
404-07	Vapour Emitted from Heating					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
Tooling Hole Drilling/ Primary, Secondary X-Ray Drilling																				
405-01	Use of Drill Bits	✓													5	3	1	15	N	
405-02	Use of Ring-Tool	✓													5	3	1	15	N	
405-03	Use of Tooling Pins	✓													5	3	1	15	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
405-04	Use of Masking Tape	✓													1	3	1	3	N	
405-05	Use of Aluminium Drill Entry	✓													1	3	1	3	N	
405-06	Use of Phenolic Backup Material	✓													5	3	1	15	N	
405-07	Use of Phenolic Sub-Table	✓													5	3	1	15	N	
405-08	Use of Softplug	✓													1	3	1	3	N	
405-09	Use of Eyelet	✓													1	3	1	3	N	
405-10	Operation of Drilling Machines									✓		B1-B5, F1-F4, F9, F10, F12								
							✓				✓				3	5	3	45	Y	EI-07
405-11	Dust Generated from Drilling and Debris						✓								3	5	1	15	N	
405-12	Radiation Emitted from X-Ray Drilling Process									✓		C1-7, F1-F4, F9, F10, F12			5	3	3	45	Y	EI-04
405-13	Disposal of Heavy Metal Waste					✓				✓		C1, C6, C7, F1-F4, F9, F10, F12								
										✓					3	3	3	27	Y	EI-04
Ultrasonic Deburring																				
406-01	Use of Bristle Brush	✓													1	1	1	1	N	
406-02	Use of Cotton Filter	✓													1	3	3	9	N	
406-03	Operation of Water Pumps							✓				B1-B5, F1-F4, F9, F10, F12								
											✓				3	3	3	27	Y	EI-07
406-04	Disposal of Spent Filter				✓							C1, C6, C7, F1-F4, F9, F10, F12								
											✓				3	3	3	27	Y	EI-04
Desmear/ PTH																				
407-01	Use of Swelling Agent	✓													1	3	1	3	N	
407-02	Use of Reducing Solution	✓													1	3	1	3	N	
407-03	Use of Wetting Agent	✓													1	3	1	3	N	
407-04	Use of Cleaner	✓													1	3	1	3	N	
407-05	Use of Activator	✓													1	3	1	3	N	
407-06	Use of Reducer	✓													1	3	1	3	N	
407-07	Use of Make Up Solution	✓													1	3	1	3	N	
407-08	Use of Additive Solution	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
407-09	User of Stabilizer	✓													1	3	1	3	N	
407-10	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
407-11	Use of Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
407-12	Use of Sodium Persulphate , NPS (Na ₂ S ₂ O ₈)	✓													1	3	1	3	N	
407-13	Use of Oxidizing Agent	✓													1	3	1	3	N	
407-14	Use of Corrosive Chemicals (Peroxides)	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
407-15	Use of Reduction Conditioner	✓													1	3	1	3	N	
407-16	Operation of Water and Air Pumps							✓							3	3	3	27	Y	EI-07
407-17	Acidic Vapour Emissions					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
407-18	Caustic Vapour Emissions					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
407-19	VOC Emissions					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
Diazo Phototool Preparation																				
408-01	Use of Ammonia Solution	✓													1	3	1	3	N	
408-02	Use of Filmguard	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
408-03	Caustic Vapour Emissions					✓					✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
Innerlayer / Outerlayer Dry Film Imaging																				
409-01	Use of Pumice Powder	✓													1	3	1	3	N	
409-02	Use of Lint Free Cloth	✓													1	3	1	3	N	
409-03	Use of Dry Film	✓													1	3	1	3	N	
409-04	Potassium Carbonate Powder	✓													1	3	1	3	N	
409-05	Use of Sticky Roller	✓													1	3	1	3	N	
409-06	Use of Defoamer	✓													1	3	1	3	N	
409-07	Use of Hydrogen Peroxide	✓													1	3	1	3	N	
409-08	Use of Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
409-09	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
409-10	Use of Defoamer	✓													1	3	1	3	N	
409-11	Use of Sky Tape	✓													1	3	1	3	N	
409-12	Use of Exposure	✓													1	3	1	3	N	
409-13	Use of Squeegee	✓													1	3	1	3	N	
409-14	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
409-15	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F13			3	3	3	27	Y	EI-05

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
409-16	Caustic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F14			3	3	3	27	Y	EI-05
409-17	High UV Exposure									✓					3	3	1	9	N	
409-18	Disposal of Pumice Powder				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Panel Plating																				
410-01	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
410-02	Use of Copper Sulphate Pentahydrate	✓													1	3	1	3	N	
410-03	Use of Cupracid	✓													1	3	1	3	N	
410-04	Use of Jig Stripper	✓													1	3	1	3	N	
410-05	Use of Copper Nugget	✓													1	3	1	3	N	
410-06	Use of Activated Carbon Powder	✓													1	3	1	3	N	
410-07	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
410-08	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F13			3	3	3	27	Y	EI-05
410-09	Operation of Mixers							✓			✓	B1-B5, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-07
410-10	Disposal of Activated Carbon Powder				✓						✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Pattern Plating																				
411-01	Use of Rack Stripper	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
411-02	Use of Acid Cleaner	✓													1	3	1	3	N	
411-03	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
411-04	Use of Sodium Persulphate	✓													1	3	1	3	N	
411-05	Use of Cupracid	✓													1	3	1	3	N	
411-06	Use of Phosphorize Copper / Pure Tin Anode Ball	✓													1	3	1	3	N	
411-07	Use of Additive	✓													1	3	1	3	N	
411-08	Use of Carrier	✓													1	3	1	3	N	
411-09	Use of Phosphorize Copper Nugget	✓													1	3	1	3	N	
411-10	Use of Acid Concentrate	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
411-11	Use of Tin Concentrate	✓									✓				1	3	1	3	N	
411-12	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
411-13	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
411-14	Operation of Mixers							✓			✓	B1-B5, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-07
Alkaline Etching																				
412-01	Use of Photo Stripper	✓													1	3	1	3	N	
412-02	Use of Caustic Soda	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
412-03	Use of Defoamer	✓													1	3	1	3	N	
412-04	Use of Etchant	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
412-05	Use of Starter	✓													1	3	1	3	N	
412-06	Use of Replenishing Salt	✓													1	3	1	3	N	
412-07	Use of Ammonium Hydroxide	✓													1	3	1	3	N	
412-08	Use of Tin Stripper	✓													1	3	1	3	N	
412-09	Use of Sulphuric Acid	✓										E1-E4, F1-F4, F9, F10, F12								
412-10	Caustic Vapour Emissions					✓				✓	✓				3	3	3	27	Y	EI-08, EI-10
412-11	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
412-12	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
412-13	Operation of Mixers							✓			✓	B1-B5, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-07
412-14	Disposal of Chemical Sludge				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Thermal Cured Soldermask																				
413-01	Use of Shifty	✓													1	3	1	3	N	
413-02	Use of Sulphuric Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
413-03	Use of Nylon Brush	✓													1	3	1	3	N	
413-04	Use of Cotton Sheath	✓													1	3	1	3	N	
413-05	Use of Soldermask	✓													1	3	1	3	N	
413-06	Use of Hardener	✓													1	3	1	3	N	
413-07	Use of Plughole Ink	✓													1	3	1	3	N	
413-08	Use of Squeegee	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
413-09	Use of Monofilament Polyester	✓													1	3	1	3	N	
413-10	Use of Aluminium Plate	✓													1	3	1	3	N	
413-11	Use of Tension Adjustable Screen Frame	✓													1	3	1	3	N	
413-12	Use of Thinner	✓													1	3	1	3	N	
413-13	Use of Pumice	✓													1	3	1	3	N	
413-14	Caustic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
413-15	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
413-16	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
413-17	High UV Exposure									✓					3	3	1	9	N	
413-18	Disposal of Pumice Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Liquid-Photoimageable Soldermask																				
414-01	Use of Shifty	✓													1	3	1	3	N	
414-02	Use of Scrub Abrasive	✓													1	3	1	3	N	
414-03	Use of Sulphuric Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
414-04	Use of Nylon Brush	✓													1	3	1	3	N	
414-05	Use of Cotton Sheath	✓													1	3	1	3	N	
414-06	Use of Rubber Tubing	✓													1	3	1	3	N	
414-07	Use of Hardener	✓													1	3	1	3	N	
414-08	Use of Squeegee	✓													1	3	1	3	N	
414-09	Use of Monofilament Polyester Screen	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
414-10	Use of Tension Adjustable Screen Frame	✓													1	3	1	3	N	
414-11	Use of Registration Pins	✓													1	3	1	3	N	
414-12	Use of Thinner	✓													1	3	1	3	N	
414-13	Use of Diazo Film	✓													1	3	1	3	N	
414-14	Use of Ammonia Solution	✓													1	3	1	3	N	
414-15	Use of Alcohol	✓													1	3	1	3	N	
414-16	Use of Exposure Lamp	✓													1	3	1	3	N	
414-17	Use of Stouffer Step Tablet	✓													1	3	1	3	N	
414-18	Use of Potassium Carbonate	✓													1	3	1	3	N	
414-19	Use of Defoamer	✓													1	3	1	3	N	
414-20	Caustic Vapour Emissions					✓				✓		A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
414-21	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
414-22	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
414-23	High UV Exposure									✓					3	3	1	9	N	
414-24	Disposal of Pumice Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
414-25	Disposal of Chemical Sludge				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Dip Cell Gold/ Nickel Plating																				
415-01	Use of Acid Cleaner	✓													1	3	1	3	N	
415-02	Use of Sodium Persulphate	✓													3	3	5	45	Y	EI-10

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
415-03	Use of Sulphuric Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	5	45	Y	EI-08, EI-10
415-04	Use of Nickel Sulphate	✓													3	3	5	45	Y	EI-10
415-05	Use of Nickel Chloride	✓													3	3	5	45	Y	
415-06	Use of Boric Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	5	45	Y	EI-08, EI-10
415-07	Use of Nickel Crown	✓													1	3	1	3	N	
415-08	Use of Brightener	✓													1	3	1	3	N	
415-09	Use of Wetter	✓													1	3	1	3	N	
415-10	Use of Additive Solution	✓													1	3	1	3	N	
415-11	Use of Replenisher	✓													1	3	1	3	N	
415-12	Use of Density Corrective Salt	✓													1	3	1	3	N	
415-13	Use of Platinum Coated Titanium Anode	✓													1	3	1	3	N	
415-14	Use of Potassium Hydroxide	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
415-15	Use of Plating Tape	✓													1	3	1	3	N	
415-16	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
415-17	Caustic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
415-18	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
415-19	Disposal of Heavy Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			1	3	3	9	Y	
415-20	Disposal of Precious Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Electroless Nickel/ Immersion Gold																				
416-01	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
416-02	Use of Ammonium Hydroxide	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
416-03	Use of Sodium Persulphate	✓													1	3	1	3	N	
416-04	Use of Replenisher	✓													1	3	1	3	N	
416-05	Use of Make Up Solution	✓													1	3	1	3	N	
416-06	Use of Acid Cleaner	✓													1	3	1	3	N	
416-07	Use of Catalyst	✓													1	3	1	3	N	
416-08	VOC Emissions					✓				✓					3	3	3	27	Y	EI-05
416-09	Acidic Vapour Emissions					✓				✓					3	3	3	27	Y	EI-05
416-10	Disposal of Heavy Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
416-11	Disposal of Precious Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Hot Air Solder Leveling (HASL)																				
417-01	Use of Sodium Persulfate	✓													1	3	1	3	N	
417-02	Use of Acid	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
417-03	Use of Flux	✓													1	3	1	3	N	
417-04	Use of Solder Bars	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
417-05	Use of Tin Bars	✓													1	3	1	3	N	
417-06	Use of Hot Air Leveling Tape	✓													1	3	1	3	N	
417-07	VOC Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
417-08	Acidic Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
417-09	Metal Vapour Emissions					✓				✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05
417-10	Dust & Debris Emitted from Drying					✓					✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-05

E. A. Reference	Environmental Aspects	Potential Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
417-11	Disposal of Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Routing/ Blanking/ V-cutting/ Bevelling																				
418-01	Use of Rout Bit	✓													1	3	1	3	N	
418-02	Use of Ring-Tool	✓													1	3	1	3	N	
418-03	Use of Tooling Pin	✓													1	3	1	3	N	
418-04	Use of Masking Tape	✓													1	3	1	3	N	
418-05	Use of Phenolic Backup Material	✓													1	3	1	3	N	
418-06	Use of Phenolic Sub-Table	✓													1	3	1	3	N	
418-07	Use of Spanner	✓													1	3	1	3	N	
418-08	Use of Brush	✓													1	3	1	3	N	
418-09	Use of Bevelling Cutter	✓													1	3	1	3	N	
418-10	Use of Wheel Saw	✓													1	3	1	3	N	
418-11	Operation of Drilling, Routing or Bevelling Machines									✓					3	5	1	15	N	
418-12	Dust and Debris Generated from Drilling, Routing and Bevelling					✓									3	5	1	15	N	
Final Clean																				
419-01	Use of Nylon Brush	✓													1	3	1	3	N	
419-02	Use of Cotton Filter Bag	✓													1	3	1	3	N	
419-03	Vapour Generated from Drying					✓			✓	✓					3	3	3	27	Y	EI-05
419-04	Disposal of Metal Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
Packaging/ Delivery																				
420-01	Use of Cardboard and Wooden Planks	✓													3	3	3	27	Y	EI-09, O&T-2006-05
420-02	Use of Plastic Bags	✓													1	3	3	9	N	
420-03	Use of Paper	✓												✓	1	3	1	3	N	
420-04	Use of Expanded Polystyrene	✓													1	3	3	9	N	
420-05	Use of Markers	✓													1	3	1	3	N	
420-06	Use of Masking Tape	✓													1	3	1	3	N	

E. A. Reference	Environmental Aspects	Potential Environmental Impacts										Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns			
420-07	Use of Staplers and Staples	✓													1	3	1	3	N		
420-08	Fuel Consumption	✓	✓										✓		1	3	1	3	N		
420-09	Exhaust Emissions from Vehicles					✓						A3, A4, A12, A13, F1-F4, F9, F10, F12									
420-10	Vapour Emitted from Markers					✓			✓	✓		✓			3	3	3	27	Y	EI-05	
420-11	Disposal of Paper Waste			✓								C1, C6, C7, F1-F4, F9, F10, F12			1	3	1	3	N		
420-12	Disposal of Plastic Waste			✓								✓			3	3	3	27	Y	EI-04	
420-13	Disposal of Packaging Waste			✓								✓			3	3	3	27	Y	EI-04	
												✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

Reviewed and Approved by : Ma Hung

E. A. Reference	Environmental Aspects	Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
Chemical Laboratory																				
501-01	Use of Organic Solvents	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
501-02	Use of Acids	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
501-03	Use of Alkaline	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
501-04	Use of Chemical Indicators for Titration	✓													1	1	5	5	N	
501-05	Use of Oxidising Agents	✓			✓										3	1	5	15	N	
501-06	Use of Corrosive Chemicals (Peroxides)	✓									✓	E1-E4, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-08, EI-10
501-07	Use of Alcohol	✓													1	1	5	5	N	
501-08	Electricity Consumption		✓								✓	F5	✓		3	3	3	27	Y	EI-09
501-09	Fuel Consumption	✓	✓								✓	F5		✓	3	3	3	27	Y	EI-09
501-10	Water Consumption	✓									✓	F5	✓		3	3	3	27	Y	EI-09
501-11	De-ionised Water Consumption	✓	✓												1	1	3	3	N	
501-12	VOC Emissions from Volatile Chemicals, Chemical Reactions and Heating					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			1	1	5	5	N	
501-13	Vapours Emissions from Volatile Chemicals, Chemical Reactions and Heating					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			1	1	5	5	N	
501-14	Discharge of Wastewater						✓			✓	✓	D1-D9, F1-F4, F9, F10, F12			5	3	3	45	Y	EI-06
501-15	Disposal of Spent Chemical Waste				✓					✓	✓	C1-C7, F1-F4, F9, F10, F12			5	3	3	45	Y	EI-04
501-16	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
501-17	Disposal of Silica Waste			✓							✓	C1-C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

E. A. Reference	Environmental Aspects	Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
501-18	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
501-19	Disposal of Packaging Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
501-20	Disposal of Heavy Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
501-21	Disposal of Precious Metal Waste				✓					✓	✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
501-22	Chemical Spillage and Leakage					✓	✓		✓	✓	✓				5	1	3	15	N	EP-05
Electrical Testing/ Quality Control																				
502-01	Use of Organic Solvents														1	1	5	5	N	
502-02	Use of Cleaners														1	1	5	5	N	
502-03	Use of Paper														1	1	1	1	N	
502-04	Use of Markers														1	1	1	1	N	
502-05	Use of Cardboard and Wooden Planks														5	3	1	15	N	
502-06	Use of Masking Tapes														1	3	1	3	N	
502-07	Use of Cloth														1	3	1	3	N	
502-08	Use of Plastic Bags														1	3	1	3	N	
502-09	Electricity Consumption		✓										✓		1	1		1	N	
502-10	VOC Emitted from Pens and Markers					✓			✓	✓					1	1	1	1	N	
502-11	VOC Emitted from Solvents and Cleaners					✓			✓	✓	✓	A1, A2, A7, A8, A11, A12, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
502-12	Disposal of Paper Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
502-13	Disposal of Metal Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

E. A. Reference	Environmental Aspects	Environmental Impacts									Criteria				Environmental Consideration				SEA	Control Measures
		Resources Utilisation	Energy Utilisation	Solid Waste	Chemical Waste	Air Pollution	Water Pollution	Noise Pollution	Odour	Flora/ Fauna	Legislation	Relevant Legislation	Company Policy	Consumption	Severity	Frequency	Quantity	Scoring of Concerns		
502-14	Disposal of Packaging Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
502-15	Disposal of Plastic Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04
502-16	Disposal of PCBs Scrap Waste			✓							✓	C1, C6, C7, F1-F4, F9, F10, F12			3	3	3	27	Y	EI-04

Reviewed and Approved by : Ma Hung