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APPENDICES

Appendix I

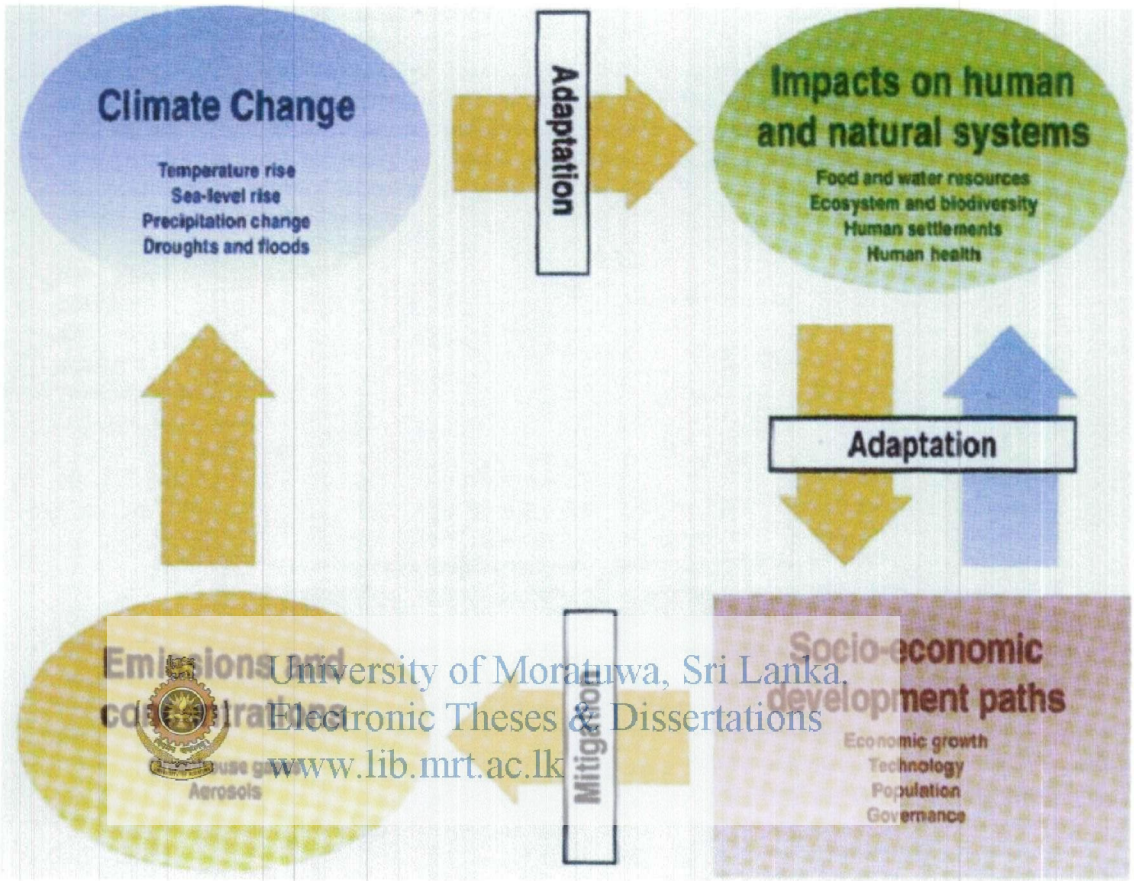
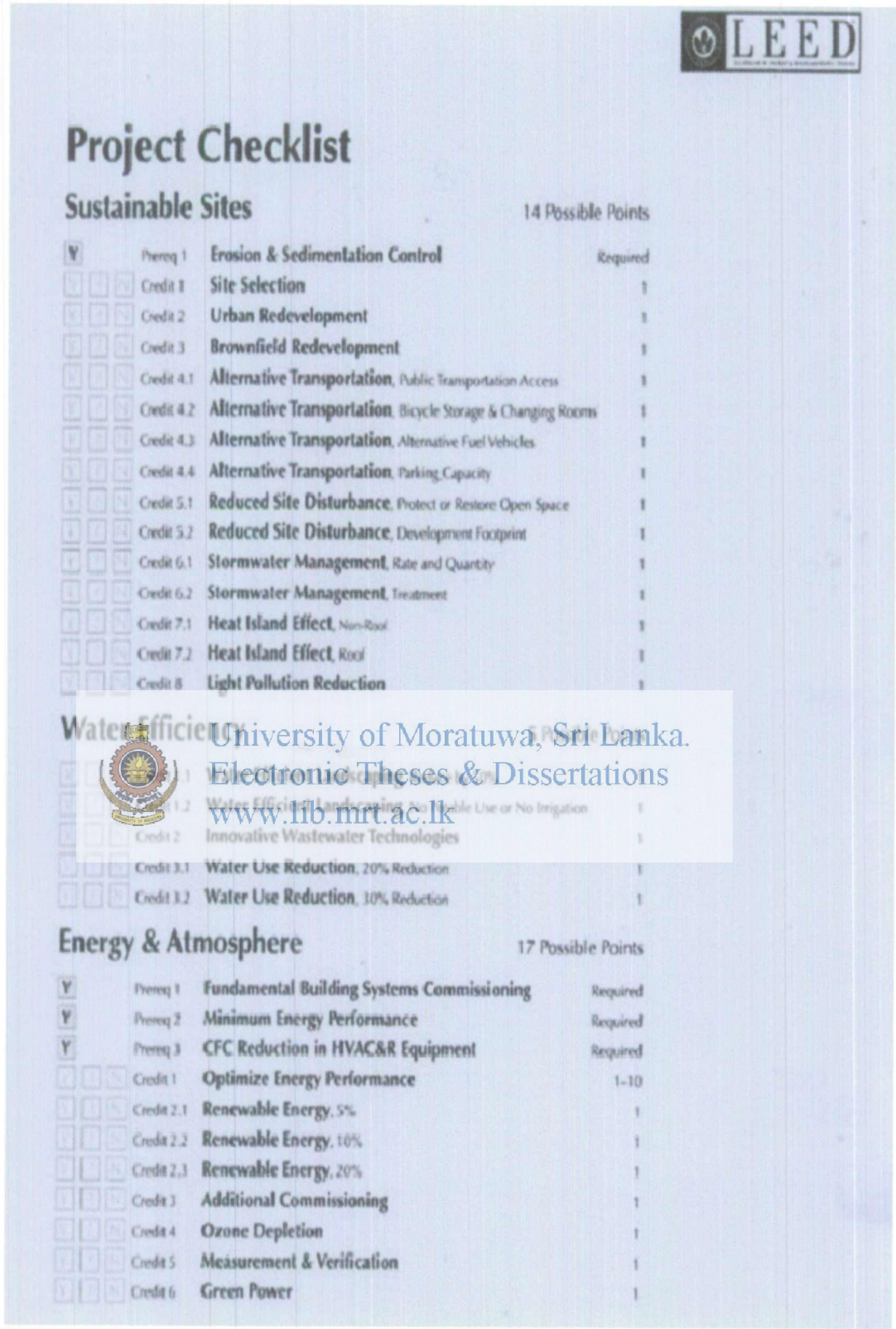


Figure 2.1: Climate change: an integrated framework

Source: http://www.un.org (2011)



Project Checklist

Sustainable Sites — 14 Possible Points

Y	Prereq 1	Erosion & Sedimentation Control	Required
	Credit 1	Site Selection	1
	Credit 2	Urban Redevelopment	1
	Credit 3	Brownfield Redevelopment	1
	Credit 4.1	Alternative Transportation, Public Transportation Access	1
	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1
	Credit 4.3	Alternative Transportation, Alternative Fuel Vehicles	1
	Credit 4.4	Alternative Transportation, Parking Capacity	1
	Credit 5.1	Reduced Site Disturbance, Protect or Restore Open Space	1
	Credit 5.2	Reduced Site Disturbance, Development Footprint	1
	Credit 6.1	Stormwater Management, Rate and Quantity	1
	Credit 6.2	Stormwater Management, Treatment	1
	Credit 7.1	Heat Island Effect, Non-Roof	1
	Credit 7.2	Heat Island Effect, Roof	1
	Credit 8	Light Pollution Reduction	1

Water Efficiency

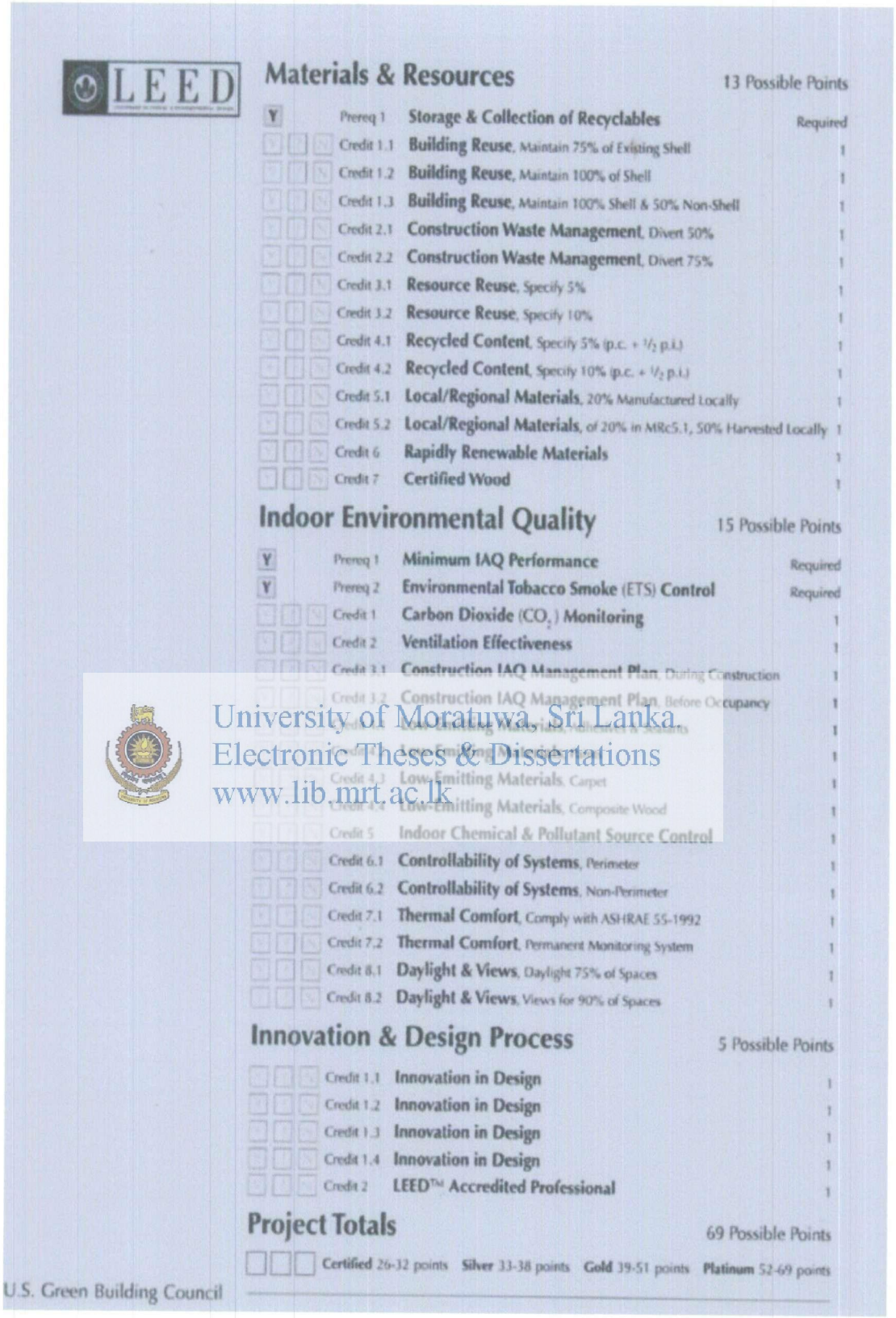
	Credit 2	Innovative Wastewater Technologies	1
	Credit 3.1	Water Use Reduction, 20% Reduction	1
	Credit 3.2	Water Use Reduction, 30% Reduction	1

Energy & Atmosphere — 17 Possible Points

Y	Prereq 1	Fundamental Building Systems Commissioning	Required
Y	Prereq 2	Minimum Energy Performance	Required
Y	Prereq 3	CFC Reduction in HVAC&R Equipment	Required
	Credit 1	Optimize Energy Performance	1–10
	Credit 2.1	Renewable Energy, 5%	1
	Credit 2.2	Renewable Energy, 10%	1
	Credit 2.3	Renewable Energy, 20%	1
	Credit 3	Additional Commissioning	1
	Credit 4	Ozone Depletion	1
	Credit 5	Measurement & Verification	1
	Credit 6	Green Power	1

Figure 2.2: LEED 2009 for New Construction and Major Renovations Project Checklist..cond..

Source: http://www.usgbc.org, 2010



LEED

Materials & Resources — 13 Possible Points

Y	Prereq 1	**Storage & Collection of Recyclables**	Required
	Credit 1.1	**Building Reuse**, Maintain 75% of Existing Shell	1
	Credit 1.2	**Building Reuse**, Maintain 100% of Shell	1
	Credit 1.3	**Building Reuse**, Maintain 100% Shell & 50% Non-Shell	1
	Credit 2.1	**Construction Waste Management**, Divert 50%	1
	Credit 2.2	**Construction Waste Management**, Divert 75%	1
	Credit 3.1	**Resource Reuse**, Specify 5%	1
	Credit 3.2	**Resource Reuse**, Specify 10%	1
	Credit 4.1	**Recycled Content**, Specify 5% (p.c. + ½ p.i.)	1
	Credit 4.2	**Recycled Content**, Specify 10% (p.c. + ½ p.i.)	1
	Credit 5.1	**Local/Regional Materials**, 20% Manufactured Locally	1
	Credit 5.2	**Local/Regional Materials**, of 20% in MRc5.1, 50% Harvested Locally	1
	Credit 6	**Rapidly Renewable Materials**	1
	Credit 7	**Certified Wood**	1

Indoor Environmental Quality — 15 Possible Points

Y	Prereq 1	**Minimum IAQ Performance**	Required
Y	Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
	Credit 1	**Carbon Dioxide (CO_2) Monitoring**	1
	Credit 2	**Ventilation Effectiveness**	1
	Credit 3.1	**Construction IAQ Management Plan**, During Construction	1
	Credit 3.2	**Construction IAQ Management Plan**, Before Occupancy	1
			1
			1
	Credit 4.3	**Low-Emitting Materials**, Carpet	1
	Credit 4.4	**Low-Emitting Materials**, Composite Wood	1
	Credit 5	**Indoor Chemical & Pollutant Source Control**	1
	Credit 6.1	**Controllability of Systems**, Perimeter	1
	Credit 6.2	**Controllability of Systems**, Non-Perimeter	1
	Credit 7.1	**Thermal Comfort**, Comply with ASHRAE 55-1992	1
	Credit 7.2	**Thermal Comfort**, Permanent Monitoring System	1
	Credit 8.1	**Daylight & Views**, Daylight 75% of Spaces	1
	Credit 8.2	**Daylight & Views**, Views for 90% of Spaces	1

Innovation & Design Process — 5 Possible Points

	Credit 1.1	**Innovation in Design**	1
	Credit 1.2	**Innovation in Design**	1
	Credit 1.3	**Innovation in Design**	1
	Credit 1.4	**Innovation in Design**	1
	Credit 2	**LEED™ Accredited Professional**	1

Project Totals — 69 Possible Points

Certified 26-32 points **Silver** 33-38 points **Gold** 39-51 points **Platinum** 52-69 points

U.S. Green Building Council

Figure 2.2: LEED 2009 for New Construction and Major Renovations Project Checklist

Source: http://www.usgbc.org, 2010

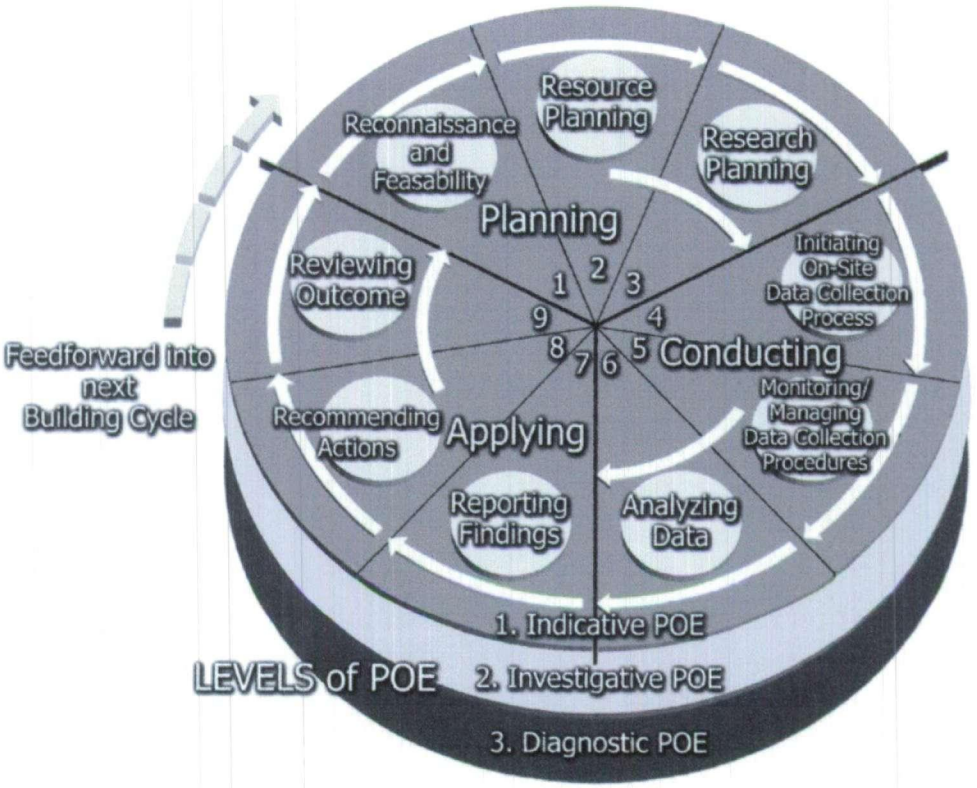


Figure 2.3: Post-occupancy evaluation: evolving performance criteria.

Source: Preiser (2001)

Figure 2.4: Six elements of Indoor Environmental Quality

Source: http://www.healthyheating.com, (2011)

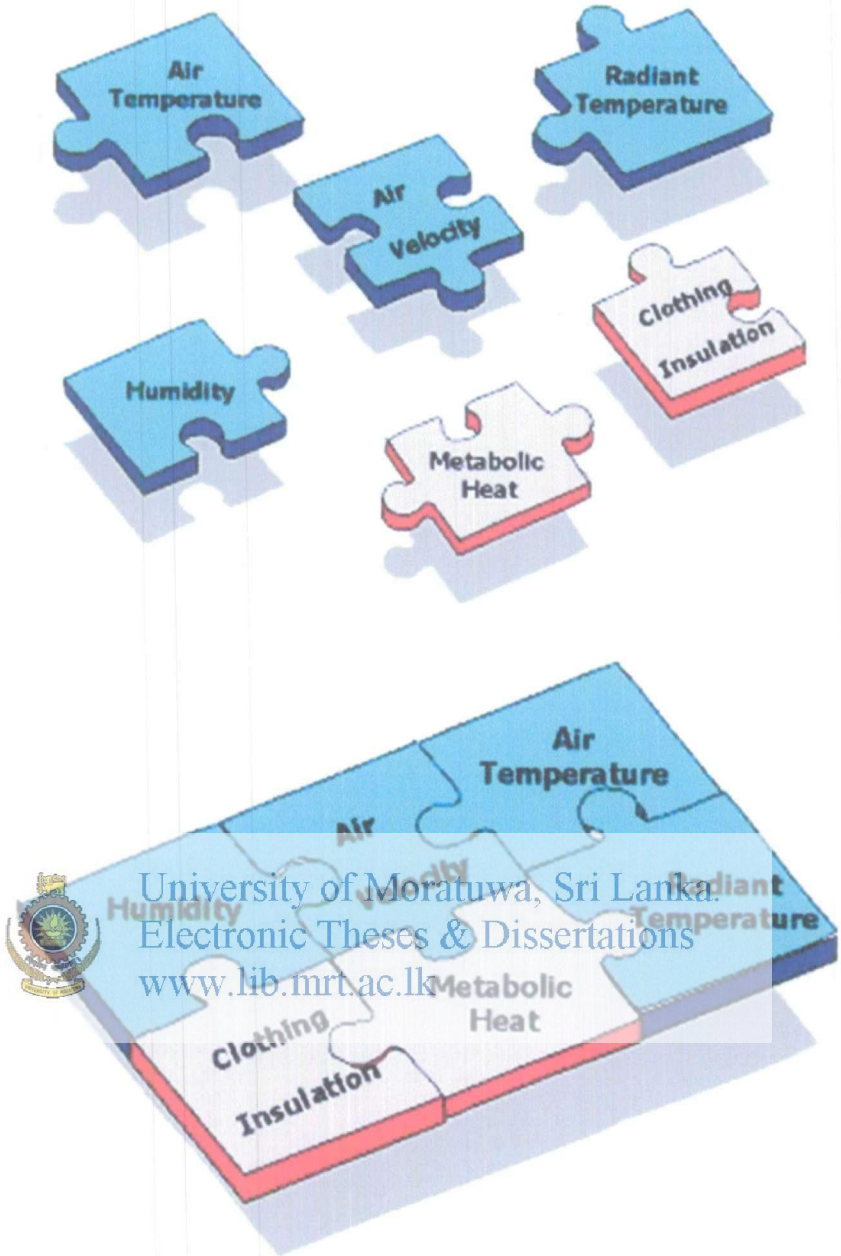


Figure 2.5: the six factors effecting Thermal Comfort

Source: http://www.hse.gov.uk

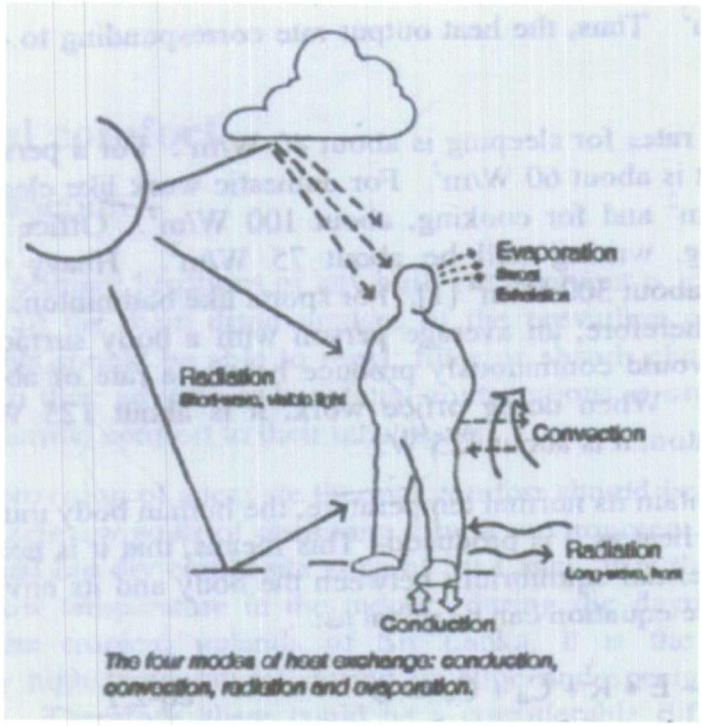


Figure 2.6: Modes of heat exchange between human body and the environment

Source: Jayasinghe (2003)

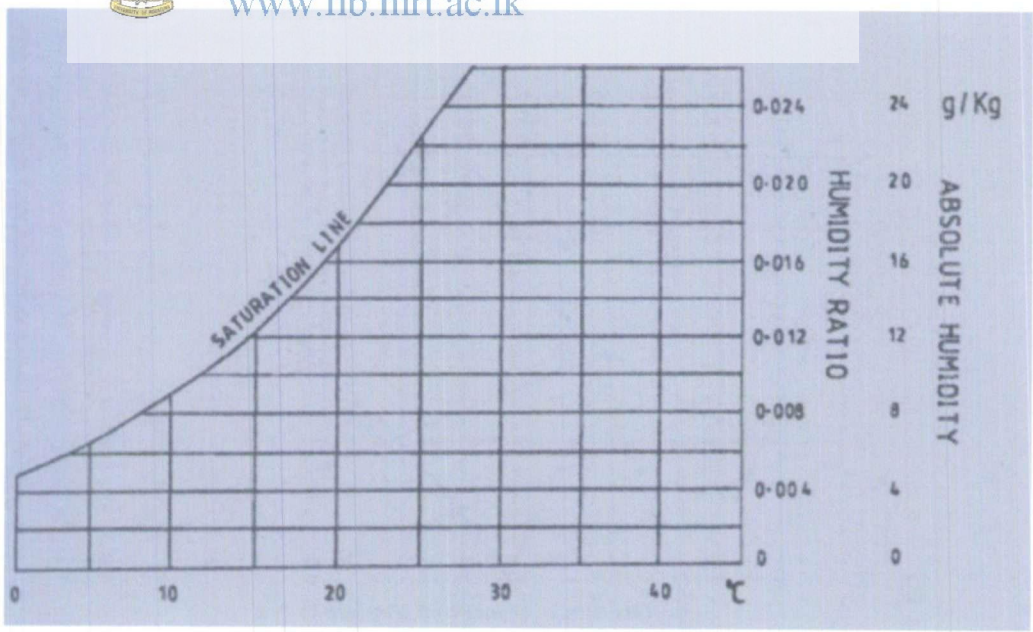


Figure 2.7: Dry bulb temperature and humidity ratio

Source: Jayasinghe and Jayasinghe (2009)

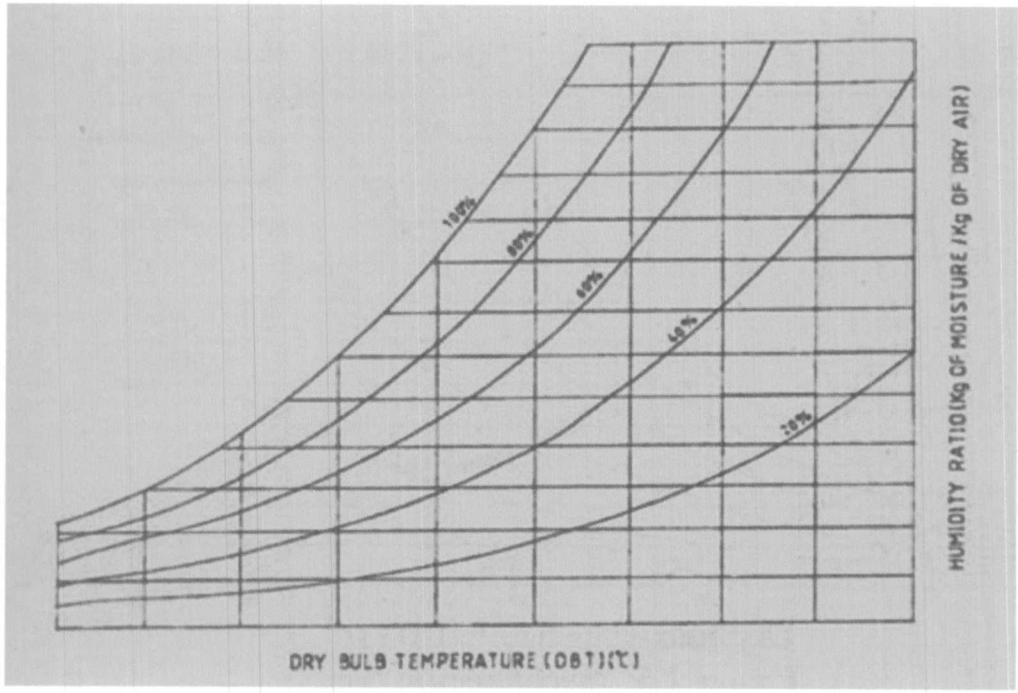


Figure 2.8: Relative humidity curves

Source: Jayasinghe and Jayasinghe (2009)

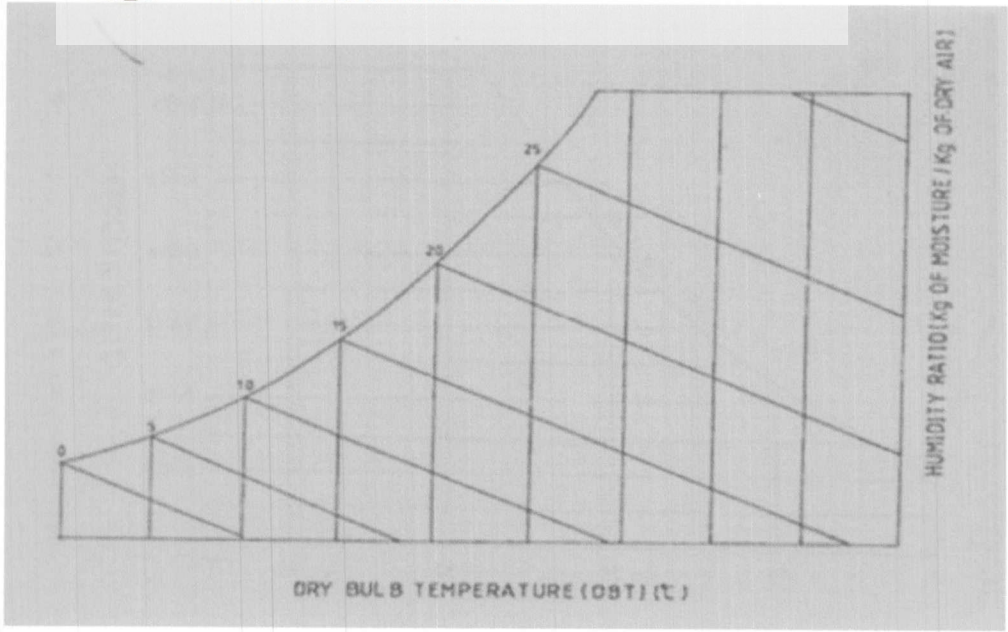


Figure 2.9: Wet bulb temperature represented by inclined line

Source: Jayasinghe and Jayasinghe (2009)

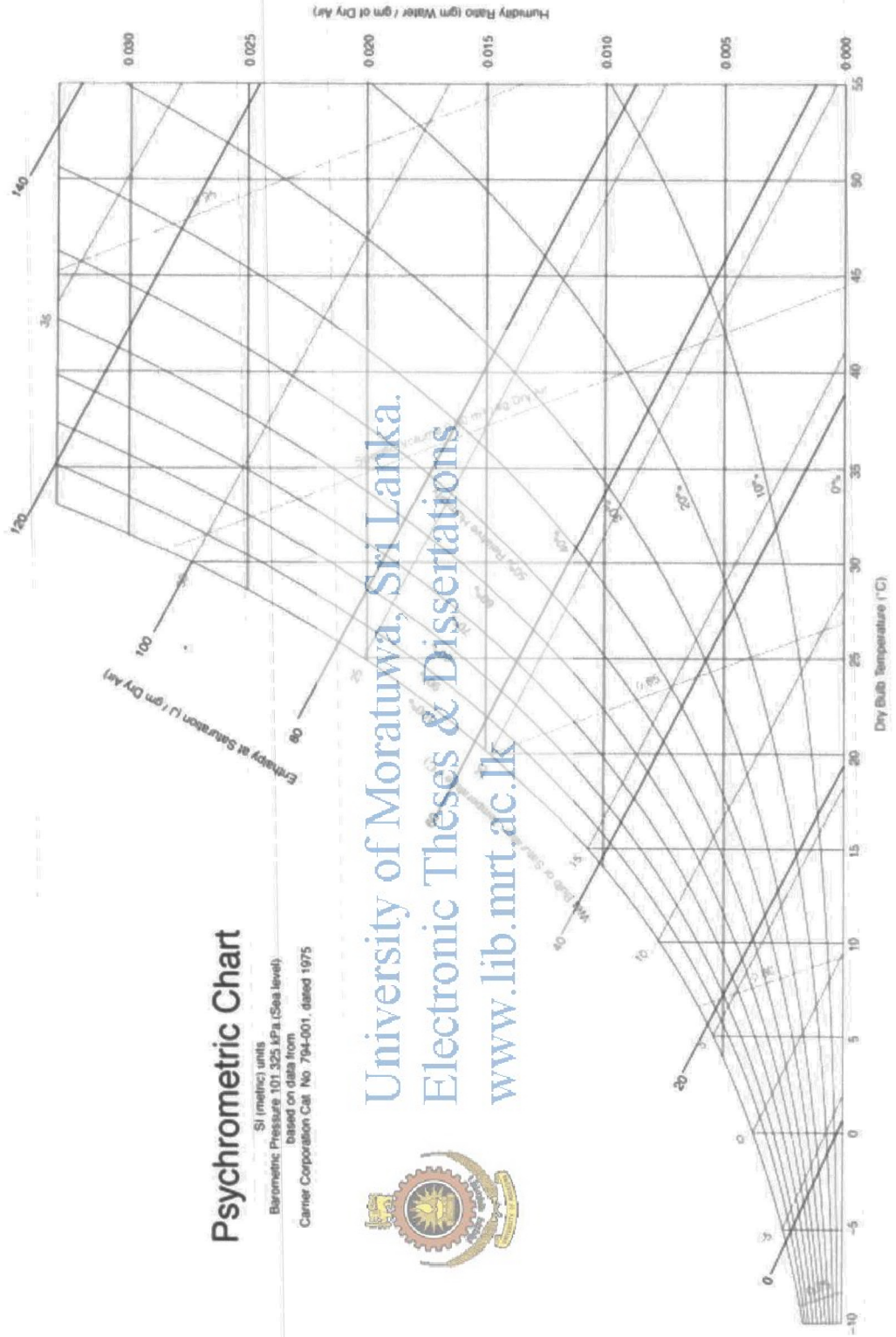


Figure 2.10: Psychrometric Chart

Source: http://www.av8n.com/physics/axes.htm

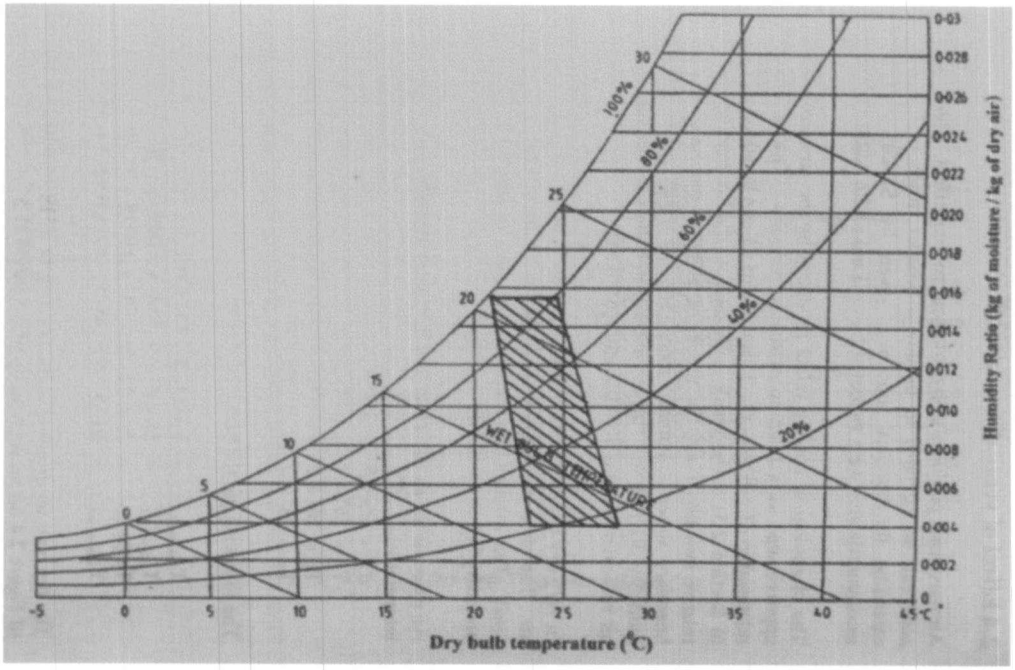


Figure 2.11: Psychrometric Chart with basic Comfort zone for high altitude of Sri Lanka

Source: Jayasinghe (2003)

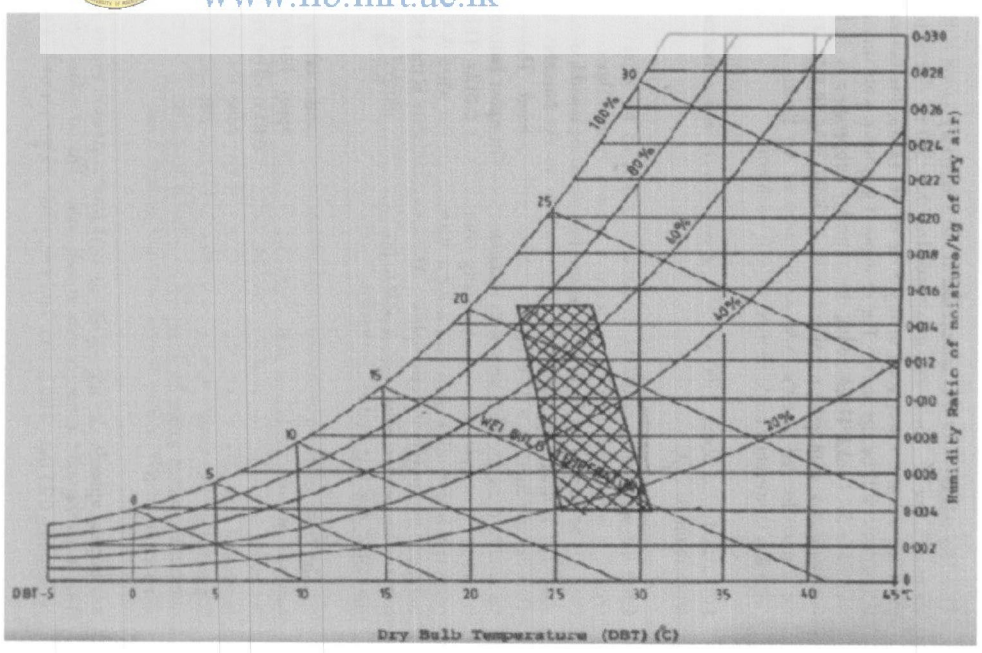


Figure 2.12: Psychrometric Chart with basic comfort zone for low altitude of Sri Lanka

Source : Jayasinghe (2003)

Appendix II

Examples of acceptable operative temperature ranges based on comfort zone diagrams in ASHRAE Standard-55-2004		
Conditions	Acceptable operative temperatures	
	°C	°F
Summer (clothing insulation = 0.5 clo)		
Relative humidity 30%	24.5 - 28	76 - 82
Relative humidity 60%	23 - 25.5	74 - 78
Winter (clothing insulation = 1.0 clo)		
Relative humidity 30%	20.5 - 25.5	69 - 78
Relative humidity 60%	20 - 24	68 - 75

Table 2.1: Acceptable temperature ranges for relative humidity levels of 30% and 60%

Source: http://www.ccohs.ca (2011)

Meteorological station	Mean Annual temperature °C	Neutrality temperature °C	Altitude (h) above mean sea level (m)
Ratmalana	28.6	26.5	h < 100
Anuradhapura	28.1	26.3	h < 100
Bandarawela	20.2	23.9	1400 < h < 1600
Badulla	24.3	25.1	600 < h < 700
Batticallo	28.6	26.5	h < 100
Colombo	26.9	25.9	h < 100
Galle	28.0	26.3	h < 100
Hambantota	27.4	26.1	h < 100
Katunayaka	27.4	26.1	h < 100
Katugastota	25.2	25.4	400 < h < 500
Kurunegala	28.0	26.3	h < 100
Nuwaraeliya	16.9	22.8	1800 < h < 2000
Puttlam	28.9	26.6	h < 100
Ratnapura	28.8	26.5	100 < h < 200
Trincomalle	30.0	26.9	h < 100
Vavunia	27.8	26.2	h < 100

Table 2.2: Annual mean temperature and neutrality temperature for various towns in Sri Lanka

Source: Jayasinghe (2003)

Appendix III

INDOOR AIR QUALITY QUESTIONNAIRE

1. **General Information**

1.1 Age - .....
1.2 Gender - .....
1.3 Job Title - .....
1.4 Department - .....
1.5 Type of working space - Cubicle / Partitioned / Semi partitioned/ Open plan
1.6 Usual working hours - .....
1.7 No of years in MAS - .....

2. **State your level of satisfaction on followings:**

*Please give your short explanation if you're not very satisfied on any of following aspects. Use space shown as ** to state your short explanation.*

	Indoor Environmental quality Aspects	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very dissatisfied
2.1	General satisfaction on building					
	**					
2.2	General satisfaction on workspace					
	**					
2.3	Overall ventilation					
	**					
2.4	Thermal comfort					
	**					
2.5	Level of artificial lighting					
	**					
2.6	Level of natural lighting					
	**					
2.7	Views					
	**					

Sample of English media questionnaire of primary study

for higher ranks of the organization….. cond

2.8	Acoustic Quality					
	**					
2.9	Office furniture					
	Machinery					
	Equipments					
	**					
2.10	Finishing Material used					
	Wall paints					
	Carpets					
	Hard flooring					
	Wood finishing					
	**					
2.11	Cleamess and maintenance					
	**					
2.12	Attention & concentration to work					
	**					
2.13	[illegible] & communication					
	**					
2.14	Interactive behaviors					
	**					
2.15	Well being					
	**					

Can you offer any other comments or observations that may be helpful in determining the environmental condition of your workplace?

.....

.....

.....

.....Thank you for your kind cooperation.....

Sample of English medium questionnaire of primary study
for higher ranks of the organization

Appendix IV

අභ්‍යන්තර පාරිසරික තත්ව සම්ක්ෂණය

(1) පොදුගලික තොරතුරු

1.1 වියස :

1.2 ස්ත්‍රී/පුරුෂ භාවය :

1.3 රැකියාව :

1.4 අංශය :

1.5 රැකියාවේ නියුතු වෙලාවන් :

1.6 මෙම ආයතනයේ කොපමණ කාලයක්ද? :

(2) පහත සඳහන් කරුණු වලට ඔබේ සැබෑවසම පහසිම ලකුණු කරන්න.
ඔබ එහත සඳහන් යම් තරුණයක් සඳහා ඉතාමත් අසතුටුදි නම් මෙම ලක්ෂණය ** ඇති ප්‍රශ්නයේ තෙවියන් තේතු දක්වන්න

	අභ්‍යන්තර පාරිසරික තත්ව	ඉතාමත් සතුටුදායකයි	සතුටුදායකයි	මධ්‍යස්ථයි	අසතුටුදායකයි	ඉතාමත් අසතුටුදායකයි
2.1	ගොඩනැගිල්ලේ තත්ත්වය					
	**					
2.2	රැකියාවේ නියුතු ප්‍රාචීරයේ තත්ත්වය					
	**					
2.3	ඕතාපය					
	**					
2.4	ළඳෙන්වය					
	**					
2.5	වැලි සහන් ආලෝක තත්ත්වය					
	**					
2.6	ස්වභාවික ආලෝකය					
	**					
2.7	ස්වභාවික අවයවය වඳ ගැනීමට හැකියාව					
	**					
2.8	වාතා සිටාංව ගසිදය					

Sample of Sinhala media questionnaire of primary study

for operators of the production floors.....cond

	අභ්‍යන්තර පාරිසරික තත්ව	ඉතාමත් අසතුටුදායකයි	අසතුටුදායකයි	සාමාන්‍යයි	සතුටුදායකයි	ඉතාමත් සතුටුදායකයි
2.9	යන්ත්‍ර සූත්‍ර					
	යන්ත්‍ර					
	උපකරණ					
	••					
2.10	ගොඩනැගිල්ල අලංකාරයට යොදා ඇති ද්‍රව්‍ය					
	බිත්ති ආලේපන					
	විදුරු/ණු					
	පොළවට දැමූ ගිඩාව					
	ලී භාවිතය					
	••					
2.11	ගොඩනැගිල්ලේ පිරිසිදුකම හා නඩත්තුව					
	••					
2.12	රැකියාවට ඇති ආකර්ෂණය					
	••					
2.13	රැකියාව පිළිබඳ අනෙක් පුද්ගලයින්ට ඇති හැඟීම					
	••					
2.14	එකිනෙකා අතර ඇති සම්බන්ධතාවය					
	••					
2.15	රැකියාවේ සුරක්ෂිතභාවය					
	••					

(4) මෙම රැකියා ස්ථානයේ හා බාහිර පරිසරය පිළිබඳ ඔබේ යෝජනා

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.... ඔබගේ සහභාගීත්වයට ස්තූතියි ....

Sample of Sinhala media questionnaire of primary study

for operators of the production floors

Appendix V

<u>අභ්‍යන්තර පාරිසරික තත්ව සමීක්ෂණය</u>

- මෙම සමීක්ෂණයෙහි මූලික අරමුණ වනුයේ ඔබ රැකියාව නියුතු ගොඩනැගිල්ල / කාමරය තුල ඇති අභ්‍යන්තර පරිසරයෙහි තත්වය පිළිබඳ අධ්‍යනයක් කිරීමයි.
- මෙහිදී ඔබේ උපරිම හා අවංක සහයෝගය බලාපොරොත්තු වන අතර, ඔබේ පෞද්ගලිකත්වය උපරිමව ආරක්ෂා කෙරෙනු ඇත.

1. කො ට ස

පහත සඳහන් හිස්තැන් පුරවන්න

1) ඔබගේ වයස:-..

2) ස්ත්‍රී/පුරුෂ භාවය:-..

3) රැකියාව කරන අංශය:-..

4) මෙම ස්ථානයේ කොපමණ කාලයක් සේවයේ යෙදී ඇතිද?:-..

5) මෙම ස්ථානයට පෙර වෙනත් සේවා ස්ථානයක රැකියාවක යෙදී ඇතිද?:-..........................

6) යෙදී ඇත්නම් කොපමණ කාලයක්ද?:-..

2. කො ට ස

පහත සඳහන් කරුණු වලට "ඔව්"(√) හෝ "නැහැ"(X) යන්න සංකේත මගින් අදාල ප්‍රශ්නයට ඉදිරියෙන් සපයා ඇති ගැලපෙන කොටුව තුල යොදන්න.

2.1 රැකියාව කරන ගොඩනැගිල්ල/කාමරය තුල පවතින "උෂ්ණත්වය" පිළිබඳ විස්තර;

(2.1.1) ඔබ රැකියාව නියුතු කාමරය තුල ඔබට රස්නයක් දැනෙයිද? ☐

(2.1.2) ඔබ රැකියාව නියුතු කාමරය තුල උෂ්ණත්වය, දවසේ විවිධ වේලාවල වෙනස් වෙයිද, වෙනස් වෙයි නම් එය ඔබට දැනෙයිද? ☐

(2.1.3) ඔබ රැකියාව නියුතු කාමරය තුල උණුසුම බව හෝ සිසිල් බව අවුරුද්දේ විවිධ කාලවල ඍතූන් සමග වෙනස් වෙයිද? ☐

(2.1.4) එසේ වෙනස්වෙයි නම් එය ඔබට දැනෙයිද? ☐

2.2 ඔබ රැකියාව නියුතු ගොඩනැගිල්ල/කාමරය තුල වාතයේ "තෙතමනය" පිළිබඳ විස්තර;

(2.2.1) බාහිර පරිසරය තුල වැසි දවසට ඇතිවන තෙත ස්වභාවය ඔබ රැකියාව නියුතු කාමරය තුලට දැනෙයිද? ☐

(2.2.2) ඔබට රැකියාව නියුතු කාමරය තුලදී ඔබට වාතයෙහි වියලි ස්වභාවයක්, එනම් රැකියාව නියුතු වේලාවන්හි අධික පිපාසයක් දැනෙයිද? ☐

(2.2.3) එසේ නැතිනම් වාතයෙහි තෙතමනයක් දැනෙයිද? ☐

2.3 ඔබ රැකියාවේ නියුතු කාමරය තුල සුළඟේ වේගය පිළිබඳ විස්තර;

(2.3.1) ඔබ රැකියාව නියුතු කාමරය තුලට හොඳින් සුළං හමයිද? ☐

(2.3.2) ඔබ එයට කැමතිද? ☐

(2.3.3) ඔබ සිතන ආකාරයට ඔබේ රැකියා කාමරයට හොඳින් පිරිසිදු වාතාශ්‍රය ලැබේද? ☐

The Sinhala media questionnaire of detail secondary questionnaire survey

Appendix VI

INDOOR AIR QUALITY QUESTIONNAIRE

The main purpose of this questionnaire is to identify the indoor environmental quality of your workplace.

During this survey we assure your privacy and we request your honest and kind cooperation.

Section 01

Please fill in the blanks

1.1 Age: .....

1.2 Gender: .....

1.3 Department: .....

1.4 How long have you been working in this organization: .....

1.5 Have you worked anywhere before joining to this organization: .....

1.6 If, yes please state how many years: .....

Section 02

Please state "Yes" (✓) or "No" (X) using the correct symbols in the given box.

2.1 Details about the "Temperature" in your working place

2.1.1 Do the air, inside your workplace feel warm or hot ☐

2.1.2 Does the temperature in the workplace change during different time of the day and do you feel that ☐

2.1.3 Do the temperature in the workplace change a lot during hot or cold seasonal variations. ☐

2.1.4 If "yes", do you feel that ☐

2.2 Details about the "Humidity" in your working place

2.2.1 During the rainy seasons, do you feel the moisture inside your workplace? ☐

2.2.2 On days with moderate temperature, do you feel dry inside your workplace, which means do you tend to drink lot of wat ☐

2.2.3 Or, on days with moderate temperature, do you feel moisture inside your workplace ☐

Appendix VI: The English translation.....cond

2.3 Details about the "Air Velocity" in your working place

2.3.1 Is cold or warm air blowing directly into the workspace ☐

2.3.2 If "yes", do you like it ☐

2.3.3 Do you think that your work place has good cross ventilation ☐

2.4 General Details about the indoor environment about your workplace

2.4.1 Is work rate is more speedy in warm days, thank cold days ☐

2.4.2 Or, is work rate is more speedy to in cold days than warm days ☐

2.4.3 Are you satisfied about the indoor environment of your workplace with respect to Temperature, Humidity and Air Velocity ☐

2.4.4 Please tick your level of satisfaction in the appropriate box

- Very satisfied ☐
- Satisfied ☐
- Neutral ☐
- Dissatisfied ☐
- Very dissatisfied ☐

Section 03

Please comment your ideas about your indoor environmental quality of your work place in following space.

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(Please fill and hand over this form by Monday (14/02/2011)
to MOS Executive, Mr. Kokila Arandara)

- Thank you for your kind cooperation -

The English translation