

GREEN BUILDING ASSESSMENT OF BUILDING A CILACAP STATE POLYTECHNIC

SUPPLEMENTARY

Table 1. Suitability of accessibility of building A for persons with disabilities

Number	Technical Guidelines and Accessibility	Application in Building A
1	Room size	Not eligible
2	Doors	Eligible
3	Stairs	Eligible
4	Lift	None
5	Stairway lift	None
6	Shower	Not eligible
7	Toilet	Not eligible
8	Sink	Eligible
9	Telephone	Eligible
10	Control equipments and tools	Eligible
11	Furnitures	Eligible
12	Signs and markings	Eligible

Table 2. Results of measurement of building A noise levels

Rooms	Noise level (dB)
Classrooms	48,5
Administration room	54,1
Laboratories	46,0
Management rooms	45,0

Table 3. Results of greenship criteria assessment building A Cilacap State Polytechnic

Assessment of Green Building Criteria for Building A Cilacap State Polytechnic		
Rating	Evidence	Point
1. APPROPRIATE SITE DEVELOPMENT		
<i>Site Management Policy</i>	There is a leadership commitment to maintain the building as evidenced by Standard operating procedures for maintenance and repair	P
<i>Motor Vehicle Reduction Policy</i>	There is a campaign to reduce the use of private vehicles as evidenced by cycling every friday	P
<i>Community Accesibility</i>	Close to public facilities such as: Local Public Hospital, Sports Auditorium, Junior High School, Senior High School	1
<i>Motor Vehicle Reduction</i>	Bike parking available	1
<i>Site Land Scaping</i>	There is a green area of at least 30% of land area in accordance with minimum standard of Cilacap Regency	3
<i>Heat Island Effect</i>	Using materials with a minimum albedo value of 0.3 according to SNI	2
<i>Storm Water Management</i>	Still relying on city drainage	0

<i>Site Management</i>	There is wildlife habitat above 5% of entire land area based on animal activities	1
<i>Building Neighbourhood</i>	Improving quality of life of community around the building	1
2. ENERGY EFFICIENCY AND CONSERVATION		
<i>Policy and Energy Management Plant</i>	There is a campaign to encourage energy savings in the form of stickers and letters of appeal	P
<i>Minimum Building Energy Performance</i>	Based on energy consumption intensity including very efficient building	P
<i>Optimized Efficiency Building Energy Performance</i>	Based on energy consumption Intensity including very efficient building	16
<i>Testing, Recomisioning or Retro-commissioning</i>	There is regular continuous commissioning within 3 years	2
<i>System Energy Performance</i>	Save lamps with high-frequency ballasts above 50%	1
<i>Energy Monitoring and Control</i>	kWh meter available	1
<i>Operation and Maintenance</i>	There are Standard Operating Procedures for Maintenance and Standard Operating Procedures for Repairing Facilities and Infrastructure as well as monthly reports on equipment	3
<i>On Site Renewable Energy</i>	None	0
<i>Less Energy Emission</i>	None	0
3. WATER CONSERVATION		
<i>Water Management Policy</i>	There is a campaign to encourage water conservation in writing in the form of stickers and letters of appeal	P
<i>Water Sub-Metering</i>	There is a water consumption meter	1
<i>Water Monitoring Control</i>	There are Standard Operating Procedures for Maintenance and Standard Operating Procedures for Repairing Facilities and Infrastructure as well as monthly reports on equipment	1
<i>Fresh Water Efficiency</i>	None	0
<i>Water Quality</i>	None	0
<i>Recycled Water</i>	None	0
<i>Portable Water</i>	None	0
<i>Deep Well Reduction</i>	Water consumption using deep water wells is below 20% of the total requirement	2
<i>Water Tap Efficiency</i>	More than 50% of total water faucet units use autostop feature	2
4. MATERIAL RESOURCE AND CYCLE		
<i>Fundamental Refrigerant</i>	CFCs are used as refrigerants and there is a plan for periodic audits and phase outs	P
<i>Material Purchasing Policy</i>	There are Standard Operating Procedures for procurement of goods/services	P
<i>Waste Management Policy</i>	None	0
<i>Non ODS Usage</i>	Air conditioning system using Freon R32	2
<i>Material Purchasing Practice</i>	There are purchases of environmentally friendly materials with an average of 3 criteria from list of environmentally friendly materials	1
<i>Waste Management Practice</i>	There are appeals and campaigns to sort organic and	1

<i>Hazaourdots Management</i>	<i>Waste</i>	inorganic waste None	0
<i>Management of Used Good</i>		None	0
5. INDOOR HEALTH AND COMFORT			
<i>No Smoking Campaign</i>		There is a no smoking campaign in the form of stickers and official letters from leadership	P
<i>Outdoor Air Reduction</i>		Room air quality shows introduction of outside air in accordance with SNI 03-6572-2001	2
<i>Environmental Smoke Control</i>	<i>Tobacco</i>	There is a smoking area outside the building with a distance of more than 5 m from the entrance	2
<i>CO₂ and CO Monitoring</i>		None	0
<i>Physical, Chemical and Biological Pollutan</i>		None	0
<i>Thermal Comfort</i>		Room temperature is generally 27°C with 67% humidity	1
<i>Visual Comfort</i>		Lighting level of some of rooms in Building A has met SNI 6197:2011	0
<i>Acoustic Level</i>		Measurement results show sound level in the workspace according to SNI 6386:2000	1
<i>Building User Survey</i>		A survey on amenities with 100 respondents resulted in more than 60% of respondents feeling comfortable with the facilities of Building A.	2
6. BUILDING ENVIRONMENT MANAGEMENT			
<i>Operation and Maintenance Policy</i>		None	-
<i>Innovation</i>		None	0
<i>Design Intent and Owner's Project Requirement</i>		Availability of documents as built drawings, technical specifications and manuals for equipment operations and maintenance	1
<i>Green Maintenance Team</i>	<i>Optional and</i>	None	0
<i>Green Occupancy/Lease</i>		None	0
<i>Operation and Maintenance Training</i>		None	0
TOTAL			51