

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE RESPONSIBLE AGENCIES
MU12	<ul style="list-style-type: none"> <li>Conserving the heritage sites</li> </ul>	<ul style="list-style-type: none"> <li>Collaboration with the locals and the management to conserve</li> </ul>	<ul style="list-style-type: none"> <li>By collaborating, the heritage sites can be protected from vandalised, and it is more effective in terms of educating the locals of protecting the heritage.</li> </ul>	<ul style="list-style-type: none"> <li>JWN</li> <li>Local Authority: MPM</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>

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MU12	<b>Setback</b> <ul style="list-style-type: none"> <li>Necessary deviations to allow for existing infrastructures and predicted movement of shorelines.</li> </ul>	<ul style="list-style-type: none"> <li>Setback have been determined based on the coastal features and important infrastructure. Generally, the DID guidance of landward of the tree line 400m for mangroves and 60m landward of the Highest Astronomical Tide contour for sandy beaches is followed. However, deviations were necessary to allow for existing infrastructures such as roads and bunds where the authorities will be required to maintain the line. In such cases, the setback is placed landward of the infrastructure (see Appendix Bund Mangrove Cover and Setback).</li> <li>The DSS should be used to determine the setback required for future developments.</li> </ul>	<ul style="list-style-type: none"> <li>Allow for movement of the shoreline.</li> </ul>	<ul style="list-style-type: none"> <li>JPS</li> </ul>
	<b>Sea Level Rise</b> <ul style="list-style-type: none"> <li>Developments along the shoreline must take into account Sea Level Rise.</li> </ul>	<ul style="list-style-type: none"> <li>Determine practical setbacks along the coastal area.</li> <li>include the sea level rise value (aside from wind setup, storm surge and wave runup) in the calculation of the platform/finish level of a design.</li> </ul>	<ul style="list-style-type: none"> <li>Coastal development</li> </ul>	

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MU12	<b>Marine Capture Fisheries</b> <ul style="list-style-type: none"> <li>To ensure high standards of fish quality, enhanced food safety and nutritional value through provision of better fisheries infrastructures and facilities.</li> </ul>	<ul style="list-style-type: none"> <li>Upgrade the fisheries infrastructure at respective fish landing points (Teluk Muroh, Marina Island, Teluk Kecil, Teluk Baharu, Teluk Gedung, Sg. Pinang and Teluk Dalam)</li> </ul>	<ul style="list-style-type: none"> <li>Lack of fisheries infrastructure at most fish landing points</li> </ul>	<ul style="list-style-type: none"> <li>Lembaga Kemajuan Ikan Malaysia (LKIM)</li> </ul>
	<b>Recreational Fishing</b> <ul style="list-style-type: none"> <li>To promote good fishing practices in recreational fishing activities</li> </ul>	<ul style="list-style-type: none"> <li>Provision of sufficient garbage bins and portable toilets at the recreational beaches.</li> <li>Promote public awareness by organizing environmental talks on coastal cleanliness and protection of coastal habitats</li> </ul>	<ul style="list-style-type: none"> <li>Lack of solid waste disposal infrastructure &amp; portable toilets</li> </ul>	<ul style="list-style-type: none"> <li>Local Authority</li> <li>Department of Fisheries</li> </ul>

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MU12	<ul style="list-style-type: none"> <li>Accelerate the growth of the tourism industry</li> </ul>	<ul style="list-style-type: none"> <li>Improving and branding the marine product industry in Manjung area</li> </ul>	<ul style="list-style-type: none"> <li>further strengthen the downstream fisheries industry's long-term development, resulting in more revenue for entrepreneurs and the development of the local economy.</li> </ul>	<ul style="list-style-type: none"> <li>LKIM</li> <li>Department of Fisheries</li> <li>Manjung Municipal Council</li> </ul>
		<ul style="list-style-type: none"> <li>Creating tourism zone</li> </ul>	<ul style="list-style-type: none"> <li>Zon Pulau Pangkor               <ul style="list-style-type: none"> <li>Island and Beaches</li> <li>Heritage and Historical</li> <li>Eco-tourism</li> <li>Sport and recreation</li> <li>Sailing</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> <li>JWN</li> </ul>
		<ul style="list-style-type: none"> <li>Strengthen Pangkor Island as a duty-free island (PBC) and an international tourism center</li> </ul>	<ul style="list-style-type: none"> <li>In moving towards a tax-free area and international standard, the management of Pangkor Island needs to provide the best facilities.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> <li>Royal Custom</li> <li>Perak State Government</li> </ul>
		<ul style="list-style-type: none"> <li>Existing commercial centres should be given more prominence.</li> </ul>	<ul style="list-style-type: none"> <li>Strengthen the role of cities and other small towns as commercial service centers.</li> <li>In support of the growth of industrial, tourism and agricultural activities in the Manjung district.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Perak State Government</li> </ul>

		<ul style="list-style-type: none"> <li>Develop new commercial areas with a mixed development concept</li> </ul>	<ul style="list-style-type: none"> <li>Availability of suitable land and potential for commercial development.</li> <li>Current business development trends especially along the main road corridors in Manjung district.</li> <li>In support of the rapid development of the tourism and industrial sector in the Manjung district.</li> <li>Various municipal initiatives can be used to enliven metropolitan areas and tourist destinations.</li> <li>Optimizing urban land use.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Perak State Government</li> </ul>
	<ul style="list-style-type: none"> <li>Ensure infrastructure reliability</li> </ul>	<ul style="list-style-type: none"> <li>Improving public transport services (water public transport system)</li> </ul>	<ul style="list-style-type: none"> <li>Able to increase the number of tourists to Pangkor Island or other tourist areas di Daerah Manjung.</li> <li>Improving the economic resources of Manjung Region.</li> <li>To provide individuals in the Manjung District with more employment and economic prospects.</li> <li>Improving the image quality of the maritime city to the international stage.</li> <li>Catalyze the growth of development in a more advanced direction.</li> <li>Able to make water public services as the main public transport system as well as land public services</li> </ul>	<ul style="list-style-type: none"> <li>LKIM</li> <li>Department of Fisheries</li> <li>JLM</li> <li>Manjung Municipal Council</li> </ul>
		<ul style="list-style-type: none"> <li>Improving the capacity of utility offerings involving broadband (High Speed Broadband HSBB)</li> </ul>	<ul style="list-style-type: none"> <li>Increase internet penetration rates by implementing High Speed Broadband (HSBB) programs and plans for major urban areas and settlements.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>

	<ul style="list-style-type: none"> <li>Ensure that land development and urban structure are in sync.</li> </ul>	<ul style="list-style-type: none"> <li>Expanding urban boundaries in Manjung district (Pekan Pantai Remis – Pengkalan Baharu)</li> </ul>	<ul style="list-style-type: none"> <li>Based on current land use changes and future demand.</li> <li>Wider and clearer urban boundaries are needed to control future urban development and expansion</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>PlaNMalaysia Perak</li> <li>PTD</li> </ul>
		<ul style="list-style-type: none"> <li>Optimizing land use (Pekan Pangkor)</li> </ul>	<ul style="list-style-type: none"> <li>To revitalize the city through existing and proposed economic activities.</li> <li>Equip and improve public facilities in major Cities.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Perak State Government</li> <li>PlaNMalaysia Perak</li> </ul>
	<ul style="list-style-type: none"> <li>Improving the quality of liveability</li> </ul>	<ul style="list-style-type: none"> <li>Provide adequate, quality and easily accessible community facilities (Educational facilities)</li> </ul>	<ul style="list-style-type: none"> <li>Increase in the number of schools to meet the needs and increase in current students.</li> <li>To provide opportunities for talented students in the Manjung District to continue their education in boarding school</li> <li>Increase the number of IPT and options for students.</li> <li>Based on the approved committed development.</li> <li>Replacement of classrooms and other facilities in SJK (T) Pangkor that have been used and damaged.</li> <li>Based on the development project proposal by the Perak SUK Office.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Perak State Government</li> <li>State Education Department (JPN Perak)</li> </ul>
		<ul style="list-style-type: none"> <li>Provide adequate, quality and easily accessible community facilities (religious facilities)</li> </ul>	<ul style="list-style-type: none"> <li>The construction of new mosques is to meet the needs of the people based on the proposed new development.</li> <li>Based on the approved committed development.</li> </ul>	<ul style="list-style-type: none"> <li>LKIM</li> <li>Department of Fisheries</li> <li>Manjung Municipal Council</li> </ul>

		<ul style="list-style-type: none"> <li>Improving the provision of adequate and functional open space (Teluk Nipah recreation area)</li> </ul>	<ul style="list-style-type: none"> <li>Boost the potential of tourism recreation areas with</li> <li>improve the area.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>
		<ul style="list-style-type: none"> <li>Strengthen the identity and image of the city (Pangkor Town)</li> </ul>	<ul style="list-style-type: none"> <li>To create a better new development and improve the quality of the city.</li> <li>Urban layout and development control for optimal development.</li> <li>The provision of urban design elements provided on the island needs to be upgraded and well maintained to ensure that the functions of the Tourism City can be achieved.</li> </ul>	<ul style="list-style-type: none"> <li>Manjung Municipal Council</li> <li>Tourim Perak</li> <li>Tourism Malaysia</li> <li>Perak State Government</li> </ul>

MU12 direction is towards economic growth but emphasis on tourism activities, it is because Pulau Pangkor are oriented for tourism. According to the one of the strategies above is to create tourism zones in Pulau Pangkor as well as commercial area in order to attract tourist and next to be the commercial centre.

Therefore, it is crucial to improve public facilities and provide adequate facilities, including water transportation, as well as to be well-prepared to welcome visitors with adequate facilities and to boost the city's image. The under-utilized Pulau Pangkor incinerator in Teluk Cempedak need to be relook and review promptly to assist the growing number of solid wastes for the whole island.

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MU12	<b>Turtle Nesting Beaches</b> <ul style="list-style-type: none"> <li>To conserve and preserve turtle landing sites.</li> </ul>	<ul style="list-style-type: none"> <li>Expedite plans to gazette turtle landing site in Teluk Ketapang coastline as protected area.</li> </ul>	<ul style="list-style-type: none"> <li>Turtle landing/nesting sites at Teluk Ketapang, Pulau Pangkor.</li> </ul>	<ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>
		<ul style="list-style-type: none"> <li>Promote sustainable coastal development at turtle nesting beaches.</li> <li>Provision of solid waste disposal infrastructure.</li> <li>Increase the 'do not litter' signboards at turtle nesting beaches.</li> </ul>	<ul style="list-style-type: none"> <li>Turtles are susceptible to various stressors from rapid coastal developments and tourism activities i.e., noise disturbance, light spill, and potential solid waste disposal.</li> </ul>	<ul style="list-style-type: none"> <li>PlaNMalaysia Perak</li> <li>Local Authority</li> <li>Department of Fisheries</li> </ul>
	<b>Marine Mammals</b> <ul style="list-style-type: none"> <li>To conserve and protect marine mammals</li> </ul>	<ul style="list-style-type: none"> <li>Minimize large-scale coastal developments and modifications near identified core habitats of cetaceans.</li> <li>Minimize coastal modifications i.e., coastal shrimp farming, coastal reclamation and clearing of fringing mangrove forests in Matang.</li> </ul>	<ul style="list-style-type: none"> <li>Potential marine mammals' disturbance due to coastal developments and modifications.</li> </ul>	<ul style="list-style-type: none"> <li>PlaNMalaysia Perak</li> <li>Department of Fisheries</li> <li>Department of Forestry</li> <li>Land Office</li> </ul>
		<ul style="list-style-type: none"> <li>Implement and enforce fisheries regulation to restrict the use of high-risk bycatch gears especially within marine mammals' hotspot areas</li> </ul>	<ul style="list-style-type: none"> <li>Utilization of unsustainable fishing gear could impose significant threat towards marine mammals within Perak coastline.</li> </ul>	<ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>



		<ul style="list-style-type: none"> <li>Promote utilization of sustainable fishing gears within the Important Marine Mammal Area (IMMA).</li> </ul>		
		<ul style="list-style-type: none"> <li>Collect and analyse data to help inform effective mitigation to reduce vessel collisions with marine mammals within MMFR.</li> </ul>	<ul style="list-style-type: none"> <li>Marine mammals are susceptible to injury and mortality from vessel collisions.</li> </ul>	<ul style="list-style-type: none"> <li>Department of Fisheries</li> <li>Marine Department</li> </ul>

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MU12 (Pantai Teluk Nipah, Teluk Kecil)	<ul style="list-style-type: none"> <li>To provide public access to the beaches</li> </ul>	<ul style="list-style-type: none"> <li>Relocate the physical structures that block the beach access to another area</li> </ul>	<ul style="list-style-type: none"> <li>Access to the beaches is blocked by physical structures such as business stalls</li> </ul>	<ul style="list-style-type: none"> <li>Majlis Perbandaran Manjung</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>
MU12 (Pantai Teluk Cempedak, Coral Beach, Pantai Teluk Segadas@Sekadeh)	<ul style="list-style-type: none"> <li>To develop proper road / accessibility along the beach</li> </ul>	<ul style="list-style-type: none"> <li>Develop accessibility along the beaches</li> </ul>	<ul style="list-style-type: none"> <li>There is no proper road / access to the beaches</li> </ul>	<ul style="list-style-type: none"> <li>JKR</li> <li>Majlis Perbandaran Manjung</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>
MU12 (Pantai Teluk Belanga, Pantai Pasir Telor, Royal Bay, Squid Bay)	<ul style="list-style-type: none"> <li>To provide public access to the beaches</li> </ul>	<ul style="list-style-type: none"> <li>Do engagement with the resort owners so that the beaches could be accessed by the public as well, and take legal action if cooperation is not given</li> </ul>	<ul style="list-style-type: none"> <li>The beaches are only accessible by the resort guest</li> </ul>	<ul style="list-style-type: none"> <li>Majlis Perbandaran Manjung</li> <li>Tourism Perak</li> <li>Tourism Malaysia</li> </ul>

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MU12	<ul style="list-style-type: none"> <li>Control of solid waste, sewage and sullage discharge from the resorts along the shoreline.</li> </ul>	<ul style="list-style-type: none"> <li>Coastal resorts must have frequent septic tanks desludging and maintenance to avoid overflow of the tank during public holidays and festive seasons to avoid the discharge of untreated sewage that will deteriorate the water quality.</li> <li>Restaurants along the shoreline must be provided with oil and grease traps and proper solid waste collection.</li> </ul>	<ul style="list-style-type: none"> <li>These areas are popular tourism sites in Perak and are very crowded during public holidays and weekends.</li> <li>Toilet facilities and sewage treatment must be well maintained to avoid untreated discharge of sewage. There is possibility of overflow of septic tanks during public holidays and festive seasons when the number of tourists increases.</li> <li>When the beach is crowded, there will also be issues of rubbish and other solid waste.</li> </ul>	<ul style="list-style-type: none"> <li>Department of Environment</li> <li>Local Council</li> <li>Indah Water Konsortium</li> </ul>