

BEYOND

SMART CITIES

HABITAT PRESERVATION PLAN - HPP

FOR ENVIRONMENTAL SPECIALISTS

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

ENVIRONMENTAL SPECIALIST CURRICULUM

CHANGING CHANCE REALTY

ENVIRONMENTAL SPECIALIST CURRICULUM

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MEASURES FAUNA PROTECTION

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LEARNING OBJECTIVES



Measures for Fauna Protection

Minimisation of Impacts on Ecological Fragmentation

Habitat Loss Compensation Measures

Trees removal and relocation

Relocation of spiny-Tailed LIZARDS (Dhub)

MEASURES FOR FAUNA PROTECTION



The rules for the treatment of vegetation should serve to protect fauna populations, since the two are often linked in the area. Therefore, adherence to the previous recommendations for mitigation of potential impacts to flora and habitats will also mitigate some of the impacts to fauna.

MEASURES FOR FAUNA PROTECTION +



To avoid direct impacts on fauna, the following principles will be followed:

- ✓ The project workforce will be made aware of the importance of fauna communities. Personnel will be informed and reminded of the importance of not harming animals.
- ✓ Fauna are not to be disturbed as a general rule.
- ✓ Purchasing, selling and other trafficking of wild animals and plant species and/or parts shall be prohibited.

MEASURES FOR FAUNA PROTECTION +



- ✓ The Construction Environmental Management Framework shall include a specific section, a Biodiversity Action Plan, in which site restoration incorporates measures to mitigate impacts on fauna species and their habitats to the greatest possible extent.
- ✓ Maintain transport activities and vehicle movement away from potentially sensitive animal habitats, such as intertidal flats, lagoon salt-mashes, coastal sand dunes, mangroves, and other vegetated areas and rock faces.

MEASURES FOR FAUNA PROTECTION +



✓ While working at night, use lights with the minimum intensity required for safety and direct lights toward the specific work areas to reduce the potential for attracting fauna.

✓ Minimise the risk of injury to fauna from vehicle movements by adopting safe speed limits and prohibiting night-driving, except in emergency situations.



MEASURES FOR FAUNA PROTECTION +



✓ Waste management procedures will be designed to prevent the attraction of fauna (especially endangered species) by appropriately managing food residues in work areas and in or around temporary offices. In particular, food and other odorous waste will be deposited in sealable bins prior to disposal.

The SEA Abu Dhabi Guidelines establish that impact minimization should describe any mitigation measures or actions that may be performed to avoid, minimise, eliminate, or compensate for the cumulative environmental impacts of the proposed project.



MINIMISATION OF IMPACTS ON ECOLOGICAL FRAGMENTATION



Similarly, non-urban corridors between urban areas that are sufficiently wide to enable east-west connections of ecological processes (flora or fauna) are critical for minimising fragmentation impacts. Linear transportation projects (e.g., highways and rail lines) should be provided with permeable elements that allow for movements of fauna (e.g., ecoducts). Long-term monitoring of the effects of ecological fragmentation and the effectiveness of the proposed mitigation measures should be planned and undertaken. Planning should be incorporated into the Construction and Operation Phases of projects.



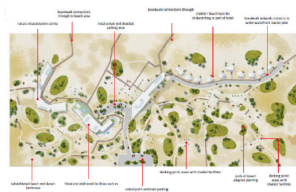
HABITAT LOSS COMPENSATION MEASURES

The Project Master Plan includes the implementation of compensation measures to offset unavoidable loss of habitats, as Client recognises the importance of these measures. As an offset measure, the construction of a Nature Interpretation Centre has been planned.

Such an interpretation, interpretive, and/or visitor centre is designed to disseminate knowledge of natural or cultural heritage. As such, this area will provide the key aspects of giving back to the local community and Qatar and preserving heritage by providing visitors with a sense of history and natural values.



HABITAT LOSS COMPENSATION MEASURES



Construction of this type of centre will likely include pods of desert-adapted plants, rehabilitated beach areas and recreated desert landscape areas and other similar representative environments. The preliminary design concept and location of this Nature Interpretation Centre is provided in Figure.



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