

Ref: UN-HABITAT/VA-I/2017/003

## TERMS OF REFERENCE

Issued on: 4 May 2017

<b>Job Title</b>	International Architect for Capacity-Building (specialized on Sustainable and Disaster Resistant Construction)
<b>Location</b>	Nay Pyi Taw, with missions to Yangon and Townships
<b>Project</b>	Myanmar Climate Change Alliance
<b>Duration</b>	12 months
<b>Starting date</b>	As soon as possible
<b>Type of Contract</b>	IICA-1
<b>No. of Position</b>	1
<b>Closing Date</b>	20 May 2017

**United Nations Core Values: Integrity, Professionalism, Respect for Diversity**

### **BACKGROUND**

Myanmar is receiving financial support under the Global Climate Change Alliance (GCCA), which was launched in 2007 to strengthen dialogue and cooperation on climate change between the European Union (EU) and developing countries most vulnerable to climate change, in particular those that will be the hardest hit by the adverse effects of climate change. Thanks to this support, the Myanmar Climate Change Alliance (MCCA) was launched in 2013 and is jointly implemented by the United Nations Human Settlements Programme (UN-Habitat) and the United Nations Environment Programme (UNEP). The main government partner ministries are the Ministry of Natural Resources and Environmental Conservation (MoNREC) and its Environmental Conservation Department (ECD). In addition, MCCA works with all sectors, and in particular with the Ministry of Construction (MoC) and its Department of Urban and Housing Development (DUHD), as well as the Ministry of Social Welfare, Relief and Resettlement (MSWRR) and its Relief and Resettlement Department (RRD).

MCCA works to achieve the following expected results, to reinforce capacities in Myanmar:

1. Government, civil society and the private sector in Myanmar are more aware of the implications of climate change (Awareness & Communication)
2. Government has the capacity and support needed to integrate climate change considerations in policies, strategies, plans and operations (Strategy formulation and technical capacity-building)
3. Lessons drawn on climate change from State and local level activities influence policy making and are communicated to relevant decision-makers in the relevant sectors (Pilot projects on climate change adaptation)

Under this framework, the MCCA has developed the *Myanmar Climate Change Strategy and Action Plan 2030* (MCCSAP). The MCCSAP recognized the need to urgently address negative effects of climate

change on the urbanization process. In effect, cities and townships of Myanmar are highly exposed to both rapid and slow on-set disasters, and the long-term effects of climate change. Myanmar is presently at comparatively early stages of urbanization (Ref. MCCSAP) and has therefore the opportunity to steer the process towards achieving urban resilience.

For this reason, the TWG agreed that **Myanmar must engage early in the impending process of urbanization to create resilient, sustainable and low-carbon towns and cities**, regardless their size, and over the long-term through all realistic means. In addition, if urban planning and development approaches integrate concepts of participation, resilience, and adoption of low-carbon technologies Myanmar can develop more inclusive, sustainable and resilient towns and cities.

The MCCSAP defines the following sectoral outcome for cities: ***Achieving Resilient, inclusive and sustainable cities and towns where people can live and thrive.*** In order to achieve this outcome, the Strategy has set three expected results, as follows:

1. Town and city residents have access to resilient infrastructure and services, that protect them from natural hazards of increased intensity, continue to perform during and after the shocks, and are best adapted to the new climatic context
2. Climate change resilience, low-carbon development and social inclusivity approaches are a defining element of urban planning and development, providing mitigation and adaptation co-benefits
3. New buildings are designed and constructed to be energy and resource efficient, as well as resilient to natural hazards and disasters, so that they emit less carbon, produce savings from reduced energy consumption and thus provide equity and affordability

The reinforcement of technical capacities is a pre-condition to achieve these ambitious expected results, as explained thoroughly in the MCCSAP (available at [www.myanmarccalliance.org](http://www.myanmarccalliance.org)). In addition, the MCCA Climate Change Capacity-Need Assessment also calls for formal training of staff, to improve capacities to address climate change.

With this as a background, MCCA has initiated a programme to build capacities of Planning, Local Governance, Architecture and Engineering-related institutions in Myanmar to integrate climate change considerations in their programmes, activities and plans, as well as to produce tangible outputs – such as compliance manuals, projects, blueprints – based on climate change adaptive measures.

Within this programme, MCCA recruits an international architect, with robust proven experience on sustainable and disaster resistant design and construction. The Architect will work with the Ministry of Construction and MCCA as required.

## **DUTIES AND RESPONSIBILITIES**

Under the direct supervision of the MCCA Chief Technical Advisor, the overall supervision of the Country Programme Manager of UN-Habitat, and in collaboration with the Ministry of Construction as required, the consultant will:

- 1) **Deliver technical assistance to the National Government to design sustainable architecture and disaster resistant affordable housing, and basic public infrastructure construction (primary schools, health posts) if required, by:**
  - Working with Government staff to design architectural blueprint/projects and related site-planning measures for sustainable and resilient housing with the Ministry of Construction,

Department of Housing and Urbanization and Department of Buildings (MoC-DHUD and DoB) considering climatic features in the present and in the futures and adapted to regions, based on existing data.

- Ensuring finalization of all blueprints/projects for sustainable, resilient and affordable housing (multi-storeys and single storeys or any typology required) with the Ministry, within their programme of 1 million houses as well as type-design for simple public buildings (primary schools and health posts).
- 2) Train relevant engineers/architectural staff of the department and other experts from the Ministry, the Myanmar Engineering Society and other partners in the field of sustainable and resilient architecture by:**
- Co-design all projects, blueprints, technical outputs along with the Ministry staff and other beneficiaries as required by MCCA, so to ensure transfer of knowledge and expertise
  - Facilitate at least 2 national workshops on resilient architecture
  - Facilitate at least 2 local technical workshops with local construction companies on the same topic
  - Develop capacity-building modules and training user-friendly materials
- 3) Design simplified technical catalogues with sustainable and disaster resistant construction measures of non-engineered basic infrastructure (primary schools, health posts, housing) to include sustainable and disaster resistant measures, adapted to sub-national and local companies or constructor skills:**
- Preparing the outline of the manual or guidelines/catalogue with technical solutions to increase resistance, and adaptation to a changing climate, of basic infrastructure and validating it with the Ministry and MCCA/UN-Habitat by means of at least one technical workshop;
  - Drafting the catalogue, highly visual and simple, with the support of a team, and validating it with the Government, the Myanmar Engineering Society and other groups;
  - Finalizing the manual or guidelines/catalogue ready for publication
- 4) Any other task required by the MCCA for the effective completion of the consultancy**

### **Expected Outputs**

1. Short inception report with a workplan agreed with MCCA and counterparts
2. Blueprints designed with the government for various housing typologies adapted to various geo-climatic reasons as follows:
  - Single houses type designs for 4 geo-climatic regions (Delta, Dry-zone, hilly region and plain land) with the use of prevalent local construction materials
  - Apartment building type designs for apartment buildings of 4-5 floors.

(Architectural blueprints to be supplemented by bills of quantities with varying costs for various locations and agreed with the national government/counterparts).

3. Catalogues of disaster resilient and sustainable solutions for simple non-engineered one-storey buildings [i.e. housing (stand-alone single houses); basic public infrastructure (schools, health posts)] adapted to regions, considering the new climate risk information data available and natural hazards
4. At least one set training modules in the form of power-points and user-friendly materials
5. At least 10 on-the-job trainings for the counterparts
6. At least 40 people trained at national level
7. At least 4 design studios/workshops facilitated to design the blueprints and catalogues
8. National and local teams and engineers supported and trained to follow on the solutions identified for both the housing projects and basic public infrastructure construction (schools, health posts)

## **QUALIFICATIONS AND EXPERIENCE**

### **Qualifications.**

- Master Degree on Architecture or equivalent Engineering degree; in case of a relevant bachelor degree only, two additional years of experience is required to what is stated below.

### **Experience.**

- Minimum 6 years of progressive working experience in architectural design and construction of buildings, preferably in the context of development or post-crisis projects;
- Of which at least 3 years or 36 man-months of relevant working experience in areas of disaster risk reduction and climate change adaptation architecture, and sustainable architecture;
- Proven experience in supervising construction works;
- Evidence of know-how and experience on issues of sustainable infrastructure, disaster-resistant technical solutions and energy efficient design;
- Experience in training and capacity-building;
- Fluent in English and competent in the use of English for construction documents

### **Skills.**

- Capacity to analyse and synthesize information.
- Proven proficient use of technical tools for the architectural design of buildings and related services, including AutoCAD; Sketch-up; Illustrator; InDesign and others.
- Mastering of general insights in social, economic and environmental issues, to consider integrated housing
- Ability to deliver tailored technical assistance to national and local teams
- Capacity to conduct interviews with communities and assess acceptance of technical solutions
- Ability to work independently with a high degree of responsibility, in a flexible manner and often under pressure.
- Good communication skills

### **Competencies**

- Demonstrates commitment to UN-Habitat's mission, vision and values
- Displays cultural, gender, religion, race, nationality and age sensitivity and adaptability

- Shares knowledge and experience related to architecture, urban planning and resilience
- Provides helpful feedback and advice to others in the office
- Focuses on result for the client
- Consistently approaches work with energy and a positive, constructive attitude
- Remains calm, in control and good humoured even under pressure
- Responds positively to critical feedback and differing points of views

### **Remuneration**

- Monthly-based inclusive of all costs (no separate DSA granted, except on field visits) with reimbursement of one return flight;
- A list and sequence of outputs will be agreed at the outset, and a work-plan agreed to assess the progress monthly;
- The all-in remuneration, inclusive of DSA, will be based on the UNOPS IICA-1 salary scale;
- The consultant needs to provide proof of a full medical insurance at the start of his assignment, valid for at least 12 months, and inclusive of medical evacuation and repatriation while on mission.

### **Submission of Applications:**

The application should comprise:

- ♦ Completed UN Personal History Form (P11). Please download the form (MS-Word) from UN-Habitat/ROAP-vacancy website: [www.fukuoka.unhabitat.org](http://www.fukuoka.unhabitat.org)
- ♦ CV with a Passport Photograph
- ♦ A Statement of Interest and suitability (a cover letter) for the position

### **All applications should be submitted to:**

UN-Habitat Myanmar Office

**UN-Habitat, UN Compound, No.6, Natmauk Road, Tamwe Township, Yangon**

**To: [recruitment@unhabitat.org.mm](mailto:recruitment@unhabitat.org.mm)**

**Cc: [habitat.fukuoka@unhabitat.org](mailto:habitat.fukuoka@unhabitat.org)**

Please indicate the Post Title: “**MYA- International Architect for Capacity-Building**” in your e-mail subject.

Please note that applications received after the closing date stated below, will not be given consideration. Only short-listed candidates whose applications respond to the above criteria will be contacted for an interview. The fee will be determined according to the qualifications, skills and relevant experience of the selected candidate. In line with UN-Habitat policy on gender equity, applications from female candidates will be particularly welcome. UN-Habitat regrets its inability to reply individually or attend to telephone queries on the advertised posts.

**Deadline for applications: 20 May 2017**