

Please fill in the form in the grey spaces, by following the instructions in italic.

Requesting country:	Sri Lanka
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Request title:	Technical Assistance for the Development of a Climate Smart City in Kurunegala
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Contact information:

{Please fill in the table below with the requested information. The request proponent is the organization that the request originates from, if different from the National Designated Entity (NDE).}

	National Designated Entity	Request Applicant
Contact person:	Dr.R.D.S.Jayathunga	Mr. Pradeep Thilakarathne
Position:	Director	Municipal Commissioner
Organization:	Climate Change Secretariat, Ministry of Mahaweli Development & Environment	Municipal Council Building Kurunegala
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Technology Needs Assessment (TNA):

{Select one of the three boxes below:}

- ☐ The requesting country has conducted a TNA in
- X ☐ The requesting country is currently conducting a TNA to be completed in 2018
- ☐ The requesting country has never conducted a TNA

{If the requesting country has completed a TNA, please indicate what climate technology priority this request directly relates to. Please indicate reference in TNA/TAP/Project Ideas.}

CTCN Request Incubator Programme:

{Please indicate if this request was developed with support from the Request Incubator Programme:}

- ☐ Yes
- X ☐ No

Geographical focus:

{Select below the most relevant geographical level for this request:}

- ☐ Community-based
- ☒ Sub-national Municipal Council of Kurunegala City
- ☐ National
- ☐ Multi-country

{If the request is related to the sub-national or multi-country level, please indicate here the areas concerned (provinces, states, countries, regions, etc.)}

Theme:

{Select below the most relevant theme(s) for this request:}

- ☐ Adaptation to climate change
- ☐ Mitigation to climate change
- ☒ Combination of adaptation and mitigation to climate change

Sectors:

{Please indicate here the main sectors related to the request. e.g. energy, industry, transport, waste, agriculture/fisheries, forestry, water, ecosystem/biodiversity, coastal zones, health, education, infrastructure/human settlement, tourism, businesses, early warning/disaster reduction, institutional design and mandates, cross-sectorial}

Cross sectorial: infrastructure, human settlement, ecosystem, transport, waste, energy, industry

Key sector: *Infrastructure & Urban planning*

Sub Sectors: *Energy, Mobility, Waste and Vegetation cover (Urban forest and wet lands)*

Problem statement (up to one page):

{Please describe here the difficulties and specific gaps of the country in relation to climate change, for which the country is seeking support from the CTCN. Please only provide information directly relevant to this request, and that justifies the need for CTCN technical assistance.}

Kurunegala City is one of the most intensively developing economic and administrative capitals, located in the North Western Province of Sri Lanka. It is one of the central cities of Sri Lanka which is directly connected to a number of major capital cities and towns of the island. The main highways connect it to Colombo, Kandy, Dambulla, Negombo, Anuradhapura and Kegalle. Despite the small size of area (11km²), the population of the district is relatively high in numbers (3000/Sqkm), and intensively growing at the rate of 4% per year. The city of Kurunegala is a densely built residential, business and commercial area, with constantly increasing volume of traffic and significantly decreasing rate of green spaces per capita. The most challenging characteristic of the city in terms of integrative planning for climate change is the fact that the range of feasible adaptation and mitigation measures is limited by the existing governance system. But, there is a high capacity and potential to integrate climate smart planning, since currently, there are few commercial buildings and the city has been marked for expansion.

Like other world cities, the city of Kurunegala is also facing socio-spatial climate vulnerabilities in that the most

crucial being extreme heat conditions, periods of flooding, air pollution, public health, decrease in drinking water supply, ground water pollution, waste management issues, lack of sewage treatment and disposal facilities, gradually diminishing urban biodiversity and recreation. Therefore, most urban systems in the city of Kurunegala are vulnerable to the impacts of climate change and most crucial to adaptation challenges which have affected in the past/can affect in the future.

The Master Plan proposed by the Urban Development Authority (UDA) incorporating economic and spatial development plans which contain, Road and transport plan, Settlement development plan, Environment management plan, Economic development plan, Development guide plans still need to recognize integrated climate planning concerning the adaptive capacity and vulnerability on the adverse impacts of climate change. In the city where the social economic and ecological system depends more on climate conditions there is a need to plan with more risk resilience and develop more and diverse adaptation and mitigation measures. It is obvious that the impact of climate change can decrease the economic and social wellbeing of the city dwellers.

The aim of this technical assistance is to establish a “climate smart” city framework design in close cooperation with all the city stakeholders in the municipality and the proposed UDA master plan. The vulnerability of the city landscape and systems will be assessed along with the economic and social vulnerability of the city. This assessment will lead to integrate energy, mobility, waste and vegetation cover to improve adaptation and mitigation into Infrastructure & Urban planning.

Kurunegala as a central city is directly connected to Puttalam and Negombo (Coastal Cities), Anuradhapura and Dambulla (Cultural and Tourist Cities) Kandy (UNESCO cultural City in the mid country) and Matale and Kegalle (Agricultural prominent) through main high ways. Therefore when designing the framework we will consider the spatial, economic, ecological social and climate features of the above cities and consider to up scale the design as appropriate into national and subnational planning.

Past and ongoing efforts (up to half a page):

{Please describe here past and on-going processes, projects and initiatives implemented in the country to tackle the difficulties and gaps explained above. Explain why CTCN technical assistance is needed to complement these efforts, and how the assistance can link or build on this previous work.}

In the past, climate concerns have not been integrated in the city design. However, there is a push towards the incorporation of climate concerns and providing enabling environment in the national and sub national level planning. Sri Lanka has already published green building guidelines for government sector buildings and a code of practice for energy efficient buildings and introduced an awarding system for green buildings. Year 2018 budget has been named as Blue Green Budget and allocated provisions for low carbon development initiatives such as carbon tax, carbon pricing, promoting for renewable energy, weather index climate insurance schemes, virtual blue green institute, etc. The Kurunegala Municipality area has been identified as one of the two ‘Green Zones’ in the island under the UNDP-GEF NAMA project implemented by the Sustainable Energy Authority of Sri Lanka. Measures have been taken to provide Solar PV net metering systems for residences. Further, there is a proposal to expand the Kurunegala city and transform it into a Megapolis City (Greater Kurunegala) in the years to come.

Assistance requested (up to one page):

{Please describe here the scope and nature of the technical assistance requested from the CTCN and how this could help address the problem stated above and add value vis-à-vis the past and on-going efforts. Please note that the CTCN facilitates technical assistance and is not a project financing mechanism.}

Technical assistance is requested to;

Development of a framework and a comprehensive Master Plan for establishing a "Climate Smart City" for KMC
Climate Risk/Vulnerability assessment of the KMC area and suburb
baseline status surveys of climate change, socioeconomic and ecological
Application of International climate smart cities components
Action Plan for transforming KMC into a climate smart city
Building the capacity of city planners and policy makers of the KMC

Expected benefits(up to half a page):

{Please outline here the medium and long-term impacts that will result from the CTCN technical assistance, including how the assistance will contribute to mitigate and/or adapt to climate change.}

Long Term Benefit:- Enhance climate resilience and the low carbon pathways of the KMC City

The Climate Smart City framework and action plan will guide policy makers and urban planners in making critical decisions in investing and implementing clean and green infrastructure, renewable energy, sustainable transport, waste management etc. of the city areas which would help in reducing the GHG emission. The framework and action plan would also guide the policy makers on how to increasing the climate resilience of the city infrastructure, urban landscapes and urban community in the face of adverse impacts of climate change.

Medium term Benefit- Incorporation of climate resilient aspects and low carbon technologies into city development plans. Mainstreaming climate change aspects into provincial agenda.

Post-technical assistance plans (up to half a page):

{Please describe here how the results of the CTCN technical assistance will be concretely used by the applicant and national stakeholders, to pursue their efforts of resolving the problems stated above after the completion of the CTCN intervention (list specific follow-up actions that will be undertaken).}

Mainstreaming key climate smart interventions proposed from the framework and the Master Plan into Kurunegala City development Plan, prepared by Urban Development Authority (UDA)

Setup an institutional governance mechanism, steering committee and technical working group for effective integration of climate smart city features into the UDA Master Plan for Kurunegala City

Establishment of a climate change monitoring system for KMC through intervention of baseline status

Key stakeholders:

{Please list in the table below the main stakeholders who will be involved in the implementation of the requested CTCN technical assistance, and what their role will be in supporting the assistance (for example, government agencies and ministries, academic institutions and universities, private sector, community organizations, civil society, etc.). Please indicate what organization(s) will be the main/lead counterpart(s) of CTCN experts at national level, in addition to the NDE.}

Stakeholder	Role to support the implementation of the assistance
<i>Add as many lines as needed</i>	
Climate Change Secretariat, Ministry of Mahaweli Development and Environment	Executing and Facilitating support
Municipal Council Kurunegala (KMC)	Project Proponent Political leadership and support Baseline information support, facilitate stakeholder consultations and implementation of actions
Provincial Council of North western province (NWP) and two district secretaries of Kurunegala and Puttalm districts	Support for governance, legislative and regulatory powers
Urban Development Authority- Kurunegala	Support to KMC integrating national level circumstances of city planning Baseline information support information
Land Use Planning Department -Kurunegala	Preparation of fine scale spatial maps and ground – verification work
Road Development Authority, Kurunegala	Support for KMC, UDA for integration Climate Change Concerns in to city planning and introducing traffic congestion minimizing plans
Ceylon Electricity Board	Supporting for renewable energy and GHG emission calculation
Municipal and Urban Councils of the main connecting cities (Puttalam, Dambulla, Negombo, Kandy, Matale and Kegalle)	Integration and coordination of design and implementation of the framework and action plan.
Sri Lanka Sustainable Energy Authority	Establishment of solar power in Green Zone of KMC
Private Technical Institutions based in Kurunegala	Support for preparation of framework and action plan
University of Wayamba	Provide technical support for preparation of framework and Master Plan
Private sector	Support for market readiness and SMEs
Provincial base NGOs and CBOs	Mobilizing people and undertake possible actions for the implementation

Alignment with national priorities (up to half a page):

{Please demonstrate here that the technical assistance requested is consistent with documented national priorities (examples of relevant national priorities include: national development plans, poverty reduction plans, technology needs assessments (TNAs), LEDS, NAMAs, TAPs, NAPs, sectorial strategies and plans, etc.). For each document mentioned, please indicate where the priorities specifically relevant to this request can be found (chapter, page number, etc.).}

Readiness Plan for Implementation of NDCs – Sectoral plans: Energy, Transport, waste, industry , Forestry, Urban city planning and human settlement

NAMA project on Energy Generation & End Use Sectors- pilot projects on Solar, Biogas and waste in Green Zone KMC -ongoing

Sri Lanka Next: Blue Green Public Investment Plan for NDC implementation

Punarudaya – National Programme for Environment Conservation (2016-2018) – (Establishment of Climate Smart Cities)

Third National Communication- Baseline assessments (TNC)- UNFCCC -ongoing

National Adaptation Plan (NAP) (2016-2025)–Priority Actions Human Settlements and infrastructure, Tourism and recreation , Industry, energy and transportation

National Climate Change Adaptation Strategy (2011 -2016) – Enable Climate Resilient and Healthy Human Settlement pg.11, Improve Climate Resilience of Key Economic Drivers pg.17

National Climate Change Policy (2012)

National Climate Vulnerability in Sri Lanka (2011-2016) –Sector Vulnerability Profile: Urban Development, Human Settlement and Economic Infrastructure

National Disaster Risk Reduction Plan (Disaster Management Centre)

Development of the request (up to half a page):

{Please explain here how the request was developed at the national level and the process used by the NDE to approve the request before submitting it (who initiated the process, who were the stakeholders involved and what were their roles, and describe any consultations or other meetings that took place to develop and select this request, etc.)}

Draft proposal was presented at the CTCN workshop held in Sri Lanka in August 2016 and obtain the technical inputs from all the relevant stakeholders

Expected timeframe:

{Please propose here a duration period for the assistance requested.}

One year (12 months)

Background documents:

{Please list here relevant documents that will help the CTCN understand the context of the request and national priorities. For each document, provide weblinks if available, to attach to the submission form while submitting the request. Please note that all documents listed/provided should be mentioned in this request in the relevant question(s), and that their linkages with the request should be clearly indicated.}

National Policy on climate change (2012)

National Climate Change Adaptation Strategy for Sri Lanka 2011-2016

Second National Communication- Baseline data

Sector vulnerability Assessments- Urban development human settlement and economic infrastructure

Sector Vulnerability Assessments- Data Book – Baseline data

Punarudaya – National Programme for Environment Conservation – pg.43 (establishment of Climate Smart Cities)

Readiness Plan for Implementation of NDCs – Sectoral plans- Energy, Transport, waste, industry , Forestry, Urban city planning and human settlement

Master Plan for Kurunegala Development - City design and planning

National Guidelines for Green Buildings-Ministry of Mahaweli Development and Environment

National Adaptation Plan (NAP) – Priority Actions Human Settlements and infrastructure, Tourism and recreation , Industry, energy and transportation

Technology Need Assessment and Technology Action Plans for Climate Change Mitigation- Sector priorities

Technology Need Assessment and Technology Action Plans for Climate Change Adaptation- Sector priorities

National Biodiversity Strategy and Action Plan (NBSAP)- Payment for Ecosystem Services(PES)

Web link: http://www.climatechange.lk/ccs_index.html

Monitoring and impact of the assistance:

{Read carefully and tick the boxes below.}

☒ By signing this request, I affirm that processes are in place in the country to monitor and evaluate the assistance provided by the CTCN. I understand that these processes will be explicitly identified in the Response Plan in collaboration with the CTC, and that they will be used in the country to monitor the implementation of the CTCN assistance.

☒ I understand that, after the completion of the requested assistance, I shall support CTCN efforts to measure the success and effects of the support provided, including its short, medium and long-term impacts in the country.

Signature:

NDE name: Dr.R.D.S.Jayathunga

Date:

Signature:

THE COMPLETED FORM SHALL BE SENT TO THE CTCN@UNEP.ORG

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>>> Contact the CTCN team at ctcn@unep.org

National Adaptation Plan (NAP) – Priority Actions Human Settlements and infrastructure, Tourism and recreation , Industry, energy and transportation

Technology Need Assessment and Technology Action Plans for Climate Change Mitigation- Sector priorities

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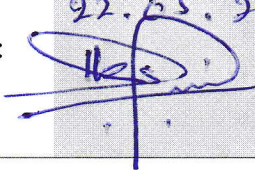
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Signature:

NDE name: Dr.R.D.S.Jayathunga

Date: 22.05.2018

Signature:



Dr. R.D.S. Jayathunga
Director (Climate Change)
Ministry of Mahaweli Development and Environment
"Sobadam Piyasa"
No. 416/C1, Robert Gunawardana Mawatha,
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