

SERVICE LEVEL IMPROVEMENT PLAN

FINAL



GREEN SPACE AND PARKS

THIRUVANANTHAPURAM MUNICIPAL CORPORATION

1. Assess the Service Level Gap

First and foremost aspect of SLIP is to assess the existing situation and service levels gaps for organized Green Space and Parks based on standards prescribed in URDPFI Guidelines and National Building Codes (Refer AMRUT Guidelines; Para 3.1.6 & 6.2). This shall also include describing existing institutional framework vis-à-vis development and maintenance of organized green space/ parks. In order to assess the service level gap the City shall have to review all policies, plans; scheme documents etc., hold discussions with concerned officials and citizens, as per the requirement and conduct physical assessment of city parks to understand the current status (Refer Indicative Parks Assessment Tool as given in Annex-1). The city should undertake overall assessment of Parks and Open/ Green Space in terms of a) available general services and facilities, b) Physical Activities resources, c) family facilities including child friendly play equipment's, and, d) aesthetics and other

While discussing about the existing status of the organized green space in your city make a sincere effort to analyze the proportion of area under the categorization of parks as per URDPFI Guidelines eg: Housing Area Park (HAP), Neighbour hood Park (NP) Community Park (CP), District Park (DP), and Sub-City Park (SCP). Also focus on qualitative aspects of existing parks like geographical distribution across the city, encroachments, child and elderly friendly features; staffing, maintenance & equipment issues; and maintenance by RWAs/ Corporates under their CSR Activities etc.

Please respond to the questions given below (Word Limit: 500 words).

- **What are the available data sources/ plans/ reports/ schemes that exists as regards development and maintenance of parks?**

Available data sources are the Asset register, City Development Plan 2005, & draft master plan 2012. The parks and open spaces are marked under the land register of asset book. Various stages of park improvement are done under the plan fund and maintenance grant obtained from the State government to the LSGI.

- **Review the recommendation on open/ green space as per Master Plan/ Development Plan and map existing green cover against the same.**

As per the draft Thiruvananthapuram Master Plan 2012 which was later frozen by Govt, the area of organized recreational open space available is only 0.54 sq km which accounts to less than 1% of the total area of the city. As per the URDPFI guidelines a minimum of 18-20% of land area is earmarked for Parks and open spaces. Based on the standards and population distribution 10 new Parks were proposed in the draft Thiruvananthapuram Master Plan which was proposed to be developed by acquiring land in the specified locations.

The water bodies like canals, beach and lake can compensate the deficiency to a certain extent.

- **Does the ULB follow URDPFI Guidelines to categorize its organised greens/ parks/ open space or follow its own categorization? If ULB follow its own categorization, what is the rationale and how well they are interlinked to development of parks?**

ULB does not follow the URDPFI guidelines and it is done on adhoc basis by the availability of land. Since the guideline indicate a minimum of 18-20% of land area has to be set apart as Parks and open spaces. Based on the standards and population distribution, 10 new Parks were proposed in the draft Thiruvananthapuram Master Plan, because the area of organized recreational open space available in the city is only 0.54 sq km which accounts to less than 1% of the total area of the city. The area comprising Museum, Zoo, Public Gardens, Kanakakkunnu palace, Observatory hills, water works park and the adjacent areas were recommended to be developed into a central park and recreational area of the city.

- **What is the per person open space availability in the city in general and within built-up areas? Table 1: Service Level Status**

Sr. No.	Indicators	Present Status	Benchmark
1	Per Person Open Space in Plain Areas as per URDPFI	0.60 sqm/person	10-12 sq. m. per person

Source: URDPFI – 2014 & Analysis of ULB Level Data

- **Have the ULB/ City prepared park wise inventory of facilities and amenities? (ULB should identify some of the quick-win parks, which could be developed with minimal intervention that can attract good number of citizens)**

Yes, The list of parks and open spaces are enlisted along with their area in the asset register.

EMS park, Gandhi park, Kowdiar park, Chacha Nehru park , Poojappura park and Museum premises could be developed to attract the citizens.

- **What is the physical condition of parks in the city? Do they have boundary wall, fenced area, facilities of public conveniences, tube well, dustbins etc. (Mention in proportions, if possible)**

Currently most of the parks are well maintained. Almost all of parks have compound wall or are fenced. Most of the parks are easily accessible and have nearby road access. Kowdiar park, Chacha Nehru park , Poojappura park and Museum park is the parks which have water supply, play equipments, food parlours, dustbins etc. EMS park were developed with play equipments for childrens. All other developed parks are well maintained with lawns and fountains.

- **Whether parks have well planned play area encouraging physical activity? Are they equipped with child friendly play equipments, snack/ ice cream parlours/ kiosks etc. (Mention in proportions, if possible)**

4 parks (Kowdiar park, Chacha Nehru park , Poojappura park ,Museum park) have well developed play area and is equipped with child friendly play

equipments, lawns, fountains and snack/ ice cream parlours. EMS park is developed with play equipments but have no food counters. Others are coming under open space and it is not child friendly.

- **How well aesthetics component have been built in parks of your city? Are they well illuminated, landscaped – manicured with water bodies/ fountains etc. wherever possible? (Mention proportions, if possible)**

75% of the parks were developed by ULB and are illuminated, landscaped and manicured with water bodies and fountains.

- **Are there some running schemes/ projects – Central/ State/ Donor funded in the city as regard development of parks/ open spaces? Or else ULB is funding park development of parks/ green space out of its own budget?**

There is running scheme of maintenance and improvement works at all the parks. All these schemes are funded by state and ULB. Development park/green spaces are done by the ULBs own fund and funds received from the state by either plan fund or non road maintenance grant.

- **Explain the process how a park/ open space is normally shortlisted for development? Does the city have rationale for park selection for development or it is done on ad-hoc basis.**

Based on the suggestions from the public through ward Sabah and availability of land ULB shortlist the open space for park development.

It is done on ad-hoc basis.

- **List the organizations/ authorities/ private sector firms etc. and describe their roles and responsibilities in development of city parks/ open space along with green area under their jurisdiction.**

Table 2: Jurisdiction wise – Allocation of Green Space and Parks

Sr. No.	Jurisdiction	No. of Parks	Area of Parks (in sq.m.)	Proportion (in %age)
1	ULB	25	1,17,100	100%
2	Development Authority	-	-	
3	Private Ownership – Corporate/ NGOs	1		
	Total	26		

Source: Analysis of ULB Level Data

2. Bridging the Gap

Once the gap between the existing Service Levels is computed, list out initiatives undertaken in different ongoing programs/ projects/ master – development plans to address these gaps. While bridging the gaps convergence with other ongoing Central, State and Local Government Programs/ Schemes will also be looked into. Based on above, objectives will be developed to bridge the gaps (AMRUT Guidelines; Para 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of physical assessment of parks using “Assessment Tools for Parks” (Refer Annex-1 of this document) and meeting the opportunity to bridge the gap.

As per para 5.1 (Sr.No.6) of AMRUT guidelines all projects involving development of green spaces & parks shall have to make special provision for child friendly components and establish a system of maintenance with local residents participation. At least one park from each of the 500 ULBs under AMRUT would be taken up for developing facilities for Children, Youth and Elderly.

Assessment of the current status of City parks/ open spaces would clearly bring out the gap/ dearth of open spaces in terms of area allocation, having inadequate citizen friendly features and issues pertaining to its maintenance. And these will lead to formulation of three broad objectives.

Please respond to the following questions in not more than 500 words.

- Has the city done physical assessment of city parks? (ULB’s may refer Annex-1 indicative procurement of this document).

Yes. The ULB has taken physical assessment of the parks and open spaces in its jurisdiction and data has been recorded in the asset registers of the corporation.

- **Try estimating demand gap of open/ green space in the city as per the URDPFI norms and space requirement as per NBC code.**

As per the URDPFI guidelines a minimum of 18 -20% of land area is earmarked for Parks and open spaces. But the area of organized recreational open space available is only 0.54 sq km which accounts to less than 1% of the total area of the city. Around 40 sqkm is to be earmarked as per URDPFI to reach the benchmark.

- **Explain how the city plans to fill the gap in green cover and progressively enhance green cover within City to 15% over next 5 years.**

City is planning to prepare a spatial plan to identify the gap.

- **Assess and describe, if requisite provisions as per Master Plan and other State legislation have already been made?**

Based on the standards and population distribution 10 new Parks were proposed in the draft Thiruvananthapuram Master Plan, which was proposed to be developed by acquiring land in the specified locations.

- **Explain the city's action plans to make special provisions for installing child friendly components in the city parks as per AMRUT Guidelines.**

Most of the parks have no space for parking. It is in the centre of the road/ town. Polluted environment is not suitable for parks specially child friendly parks. Parks developed in future will include child friendly components as per AMRUT guidelines.

- **Explore option for O&M Contracts with (RWAs/ Citizens Groups/ Corporate Groups - CSR). Explain how the city plans to establish a system of maintenance with active citizens engagement as per AMRUT Guidelines**

Presently O&M is done through Hindustan Latex Ltd (public Ltd Company), Udaya Samudra (private sector) and State Bank of Travancore. In future, ULB is planned to maintain the parks by print media partnership, RWAs, Builders, Business

groups, Community partnership, Corporate CSR policy, Techno Park, Vizhnam Port etc.

- List out initiatives undertaken in different ongoing programs and projects to address the gaps in enhancing the green cover. For this provide details of ongoing projects being carried out under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table XX.

Table XX: Status of Ongoing/ Sanctioned

Sr.No.	Name of Project	Scheme Name	Cost in Rs Lakhs	Month of Completion	Status (as on dd Month 2015)
	Nil				

Objectives

Based on above, objectives will be developed to bridge the gaps. While developing objectives following question shall be responded so as to arrive at appropriate objective.

- Please provide a set of 2-3 objectives to meet the gap in not more than 100 words.

To undertake performance audit of existing park to access the facilities and to make child friendly.

To identify corporate to develop child friendly park at different areas so as to bridge the gap between existing facilities and recommended standards.

3. Examine Alternatives and Estimate Cost

Suggest alternatives/ options to complete the ongoing projects pertaining to developing parks and green spaces. Identify quick-win parks and open space which can also have play area and associated facilities for Children, Youth & Elderly. (Word Limit: 100 Words)

In the draft master plan 10 parks were identified and proposed to develop with play area and associated facilities for children, youth & elderly which require land acquisition.

4. Citizen Engagement

ULBs will organize and conduct city level citizen consultation and receive feedback on the suggested alternatives and innovations. Each alternative will be discussed with citizens and activities to be taken up will be prioritized to meet the service level gaps. ULB will prioritize these activities and their scaling up based on the available resources. (AMRUT Guidelines; Para 6.6, 6.7 & 7.2). Please explain following questions in not more than 200 words detailing out the needs, aspirations and wishes of the local people. (Word Limit: 100 Words)

- **Has all relevant stakeholders groups been involved in the consultation?**

Yes, stakeholder consultation meetings were conducted by the ULB at different levels.

- **Has ward/ zone level consultations held in the city?**

Yes, ward level consultations were held in the city.

- **Are the alternatives explored or crowd sourced?**

Yes, alternative proposed above are the results of stakeholder meetings, consultations and discussions.

- **What is feedback on the suggested alternatives and innovations?**

Preparing spatial plan, Involving public private partnership. Land need to be acquired.

- **Are the alternative taken up for discussions, prioritized on the basis of consultations?**

Yes, alternative taken up for discussions prioritized on the basis of consultations.

- **What methodology adopted for prioritizing the alternatives?**

“More with Less” approach has been adopted for prioritize the alternatives and stakeholder consultations and meetings were conducted.

5. Prioritize Projects

Based on the citizen engagement, ULB will prioritize these activities and their scaling up based on the available resources to meet the respective objectives. While prioritizing projects, please reply following questions (Word Limit: 100 Words)

- **What are the sources of funds?**

AMRUT, MP fund, MLA fund, Plan fund and own fund.

- **Has projects been converged with other program and schemes?**

Yes, it is converged with other program and schemes.

- **Has projects been prioritized based on “more with less” approach?**

Yes, “More with Less” approach has been adopted for prioritize the alternatives.

6. Conditionalities

Describe the Conditionality’s of each project in terms of availability of land, environmental & social obligation and clearances, required NOC, financial commitment, approval and permission needed to implement the project. (Word Limit: 100 words)

Only the up gradation of the existing park is envisaged in this phase. So there is no land acquisition required for this project. There are no slums or squatter hutments in the proposed project area. There is no re-settlement or re-habilitation required for the Project.

7. Resilience

Required approvals will be sought from competent authority and organizations. The resilience factor would be built in to ensure environmentally sustainable, safe and secured park development schemes. (Word Limit: 100 words)

Yes, Required approvals will be sought from ULBs and competent authority during the execution of the project. Child friendly equipments may be used, also the material for the same may be rust free sturdy steel structures. Guarded, Solar-well lighted, tobacco and liquor free, sustainable material for construction may be used. Provision may be given for making the features both elderly and women friendly.

8. Financial Plan

Once the activities are finalized and prioritized after consultations, investments both in terms of capital cost and O&M cost has to be estimated. (AMRUT Guidelines; para 6.5) Based on the investment requirements, different sources of finance have to be identified. Financial Plan for the complete life cycle of the prioritized development will be prepared. (AMRUT Guidelines; para 4, 6.6, 6.12, 6.13 & 6.14). The financial plan will include percentage share of different stakeholders (Centre, State and City) including financial convergence with various ongoing projects. While preparing finance plan please reply following questions (Word Limit: 100 words)

9. How the proposed finance plan is structured for transforming and creating infrastructure projects?

Required fund in terms of capital cost and O&M cost has to be estimated, 50% of the project cost as grant from GOI, 30 % as state fund and remaining 20% from ULB share. Involvement of Public/Private companies should be encouraged.

10. List of individual projects which is being financed by various stakeholders ?

There are no individual projects which are being financed by other stakeholders.

11. Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?

For the identified projects, financial plan is not in convergence with other funding partners as of now.

12. Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations ?

Yes, the financial structure is sustainable and the projects have been categorized on AMRUT funding.

13. Have the financial assumptions been listed out ?

Yes, the financial assumptions have been listed out as 50% of the project cost as grant from GOI, 30 % as state fund and remaining 20% from ULB share.

14. Does financial plan for the complete life cycle of the prioritized development?

Yes ,financial plan for the complete life cycle of the prioritized development is phased out.

15. Does financial plan include percentage share of different stakeholders (Centre, State, ULBs)

Yes, financial plan include percentage share of different stakeholders like Centre 50%, State 30%, ULB 20%.

16. Does it include financial convergence with various ongoing projects.

Yes, it includes financial convergence.

17. Does it provide year-wise milestones and outcomes?

Yes, provide year-wise milestones and outcomes.

Table 1.7 Master Plan of Green Space and Park Projects for Mission period

(As per Table 2.1 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Project Name	Priority number	Year in which to be implemented	Year in which proposed to be completed	Estimated Cost
1	All Parks in Thiruvananthapuram Corporation area	1	2016	2020	25.00
Grand Total					25.00

Table 1.8 Master Service Levels Improvements during Mission Period

(As per Table 2.2 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost
			Indicator	Existing (As-Is)	After (To-be)	
1	Developing parks	Boundary wall, play area, child friendly equipments, snack bar, landscaping, illumination, water bodies etc	10-12% area set apart as URDPFI guideline	1%	1%	25.00

Table 1.9 Annual Fund Sharing Pattern
(As per Table 2.3.1 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				
			GOI	State	ULB	Others	Total
1	All Parks in Thiruvananthapuram Corporation area	25.00	12.50	7.50	5.00	-	25.00
	Total	25.00	12.50	7.50	5.00	-	25.00

Table 1.10 Annual Fund Sharing Break-up for Green Space & Parks

(As per Table 2.3.2 of AMRUT Guidelines)

2017-18

(Amount in Rs. Cr)

Sr. No.	Project	Gol	State			ULB			Convergence	Others	Total
			14 th FC	Others	Total	14 th FC	Others	Total			
1.	All Parks in Thiruvananthapuram Corporation area										

Table 1.11 Year wise Plan for Service Levels Improvements

(As per Table 2.5 of AMRUT guidelines)

Proposed Projects	Project Cost	Indicator	Baseline	Annual Targets (Increment from the Base line Value)					
				FY2016		FY	FY	FY	FY
				H1	H2	2017	2018	2019	2020
Green space and parks									
All Parks in Thiruvananthapuram Corporation area	25.00	10-12% area set apart as URDPFI guideline	0.60				>1%	>1%	>1%