

GREEN SPACE AND PARKS SECTOR

TEMPLATE FOR SERVICE LEVEL IMPROVEMENT PLAN (SLIP) GREEN SPACE AND PARKS

1. Assess the Service Level Gap

First and foremost aspect of SLIP is to assess the existing situation and service levels gaps for organised 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 organised 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 organised 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), Neighbourhood 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?

Bhlai Municipal Corporation provides various services to 44 wards whereas, Bhlai Steel Plant (BSP) provides services to 23 wards. BMC has all data, information, reports zone-wise

based on census 2011, CDP for BMC area is divided in to 6 administrative zones for providing municipal services to citizens.

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

As per the master plan town and country planning department approves various layouts for residential development in this layout space for parks are reserved as per norms. In private colony master plan have been prepared by the builder and maintained by the Society member group.

- 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?

In BMC area various layout plan of colony area approved by Town and country planning department Durg. During Development of colony area earmarked for parks are reserved for that propose.

- What is the per person open space availability in the city in general and within built-up areas?

4.73 sq.m.per person open space availability in the city in Built-Up Areas as per National Building Code (NBC) and 17.98 sq.m. per person Open Space in Plain Areas as per URDPFI.

Table 1: Service Level Status

Sr. No	Indicators	Present Status	Benchmark	Source
1	Per Person Open Space in Plain Areas as per URDPFI	(17.98 To be filled by ULB)	10-12 sq.m. per person	Census and layout area
2	Per Person Open Space in Built-Up Areas as per National Building Code (NBC)	(4.73 To be filled by ULB)	3sq.m. per person	Census and layout area

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, BMC has prepared ward wise inventory of facility. Some parks like Nehru Nagar tank park, Kusumkananpark are under BMC services and city parks in Sec 6,1,8 and MatriBagh parks are under BSP services. MatriBagh Park is of Regional importance having boating, mini train facilities, and Zoo. In BSP area parks are well designed and attract lots of citizens. BSP Administration has developed theme based park like Traffic Park. In BMC area at PriyadarshiniParisar it is proposed to develop Amusement Park on PPP model.

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

Due to financial constraints few no. of parks are being developed every year in various wards of city by BMC, 169 no of parks are having boundary wall, fenced area, facilities of public conveniences, tubewell, dustbins etc. under BMC services.

- 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)

69nos of parks have well planned area encouraging physical activity. Are they equipped with child friendly play equipments, snack/ ice cream parlours/ kiosks etc. under BMC services.

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

Aesthetics components have been planned in parks and implemented in 20nos of parks. Landscaping work has been done in Nehru Nagar Park, Sanjay Nagar Park, and Fountains available in 14nos in parks.

- 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?

Yes, More than 46 running schemes/ projects are funding by ULB budget.

- 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.

In BMC area parks are developed on demand of ward counselors, citizen demand. Due to financial constraints parks are developed in phased manner. First to prevent encroachment and park equipment's boundary wall/ fencing work is completed, latter on other developments work like pathway, arboriculture works and play equipment's are completed.

- 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.

Private colonizers built parks as per T&Cp norms in colony area and it is maintained by people residing in that colony. In BSP area all parks are developed and maintained by BSP administration.

- Question: Where can new parks be developed in the future; how much space may be available.

In Municipal areasq km is available for development of new parks.

- Question: How much is allocated under Parks/ Open/ Recreational space as per the DP or Master Plan for new areas?

8.9% area is allocated for under Parks/ Open/ Recreational space as per the DP or Master Plan for new areas.

- Question: Who manages the parks in the city? How much delegation of responsibility has been given to RWAs and/or NGOs?

Private colonizers built parks as per T&Cp norms in colony area and it is maintained by people residing in that colony. In BSP area all parks are developed and maintained by BSP administration.

- Question: Which parks have uneasy accessibility issues or get flooded/water logged etc.?
- Question: Does the ULB have any guidelines for providing safe and secure access to parks for children and elders?

Yes

- Question: Is there a system for preventing the entry of animals into parks?

Yes

- Question: Does the city have any guidelines for horticulture; types of trees and plants, etc?

Yes

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

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

Sr. No.	Jurisdiction	No. of Parks	Area of Parks (insq.m.)	Proportion (in %age)
1	ULB	235	448344	0.005
2	Development Authority (BSP)	60	626665	0.014 %
3	Private Ownership – Corporate/ NGOs	0	-	-
	Total	295	1075009	0.019%

Source: Analysis of ULB Level Data

2.1 Table 3: Hierarchy of Organised Greens in the City (As per URDPFI -2014)

Sr No.	Catergory	No. of Parks	Area Under the Category (in sq.m.)	% Area Under Parks/ Open Space
1	Housing Area Park (HAP)(Less than 5,000 sq.m.)	294	569634	0.004%
2	Neighbourhood Park (NP)(5,000 -10,000 sq.m.)	-	-	-
3	Community Park (CP)(10,000 - 50,000 sq.m.)	-	-	-
4	District Park (DP)(50,000 – 2,50,000 sq.m.)			
5	Sub-City Park (SCP)(2,50,000	1	505375	0.011%

	sq.m. & above)		
	Total	295	0.015%

Note. S. No. 5 Mentioned Park comes under BSP

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.

- Have the city took physical assessment of city parks? (ULB’s may refer Annex-1 indicative procurement of this document).
- Estimating the demand gap of open/ green space in the city as per the URDPFI norms and space requirement as per NBC code.
- 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.
- Assess and describe, if requisite provisions as per Master Plan and other State legislation have already been made?
- Explain the city’s action plans to make special provisions for installing child friendly components in the city parks as per AMRUT Guidelines.
- Question: Provide details of the initiatives undertaken in different ongoing programs and projects to address the gaps in enhancing the green cover and rejuvenation/ development of parks. Provide information in Table 4.

Table XX: Status of Ongoing/ Sanctioned

Bhlai Municipal Corporation

Sr.No.	Name of Project	Scheme Name	Cost in RsLakhs	Month of Completion	Status (as on 10-09-2015)
1	Development and Beautification of Utkal Vrindavan Garden at Ward No. 01.	State Sponsored 399-45 Lacs.	11.38	December-15	25% Work completed
2	Development and Beautification of Bakshi Garden at Nehru Nagar East Ward No. 02.	State Sponsored 399-45 Lacs.	37.43	December-15	25% Work completed
3	Development and Beautification of Childrens garden at Arjun Nagar Dushehra Ground Ward No. 19.	State Sponsored 399-45 Lacs.	49.53	December-15	60% Work completed
4	Development and Beautification of Childrens garden in front of Block 197 Ward No. 57 Hudco	State Sponsored 399-45 Lacs.	18.08	November-15	70% Work Completed.
5	Development and Beautification of Garden in between Street 09 & 10 Ward No. 49 Sector-7	Adhosanrachna Mad 20.85 Cr.	19.83	December-15	50% Work completed
6	Development Work of Garden at Housing Board Kohka Ward No. 08.	Adhosanrachna Mad 20.85 Cr.	32.45	December-15	60% Work completed
7	Channeling Fensing and maintainance of Garden Main gate, Flooring, Painting and maintainance work of Garden at Ruabandha Talab Ward No. 54.	Adhosanrachna Mad 20.85 Cr.	19.80	December-15	50% Work completed
8	Channeling Fensing, Pathway Construction Playing Equipments and Garden light fitting work at Risali Sector Ward No. 59	Adhosanrachna Mad 20.85 Cr.	22.45	November-15	80% Work completed
9	Construction Of Garden in front of Shamshan Ghat Risali Ward No. 63.	Adhosanrachna Mad 20.85 Cr.	13.65	January-16	30% Work completed
10	Development Work of Muktidham At Risali Ward No. 63.	Adhosanrachna Mad 20.85 Cr.	30.75	January-16	40% Work completed
11	Development Work of Muktidham At Dundera Ward No. 65	Adhosanrachna Mad 20.85 Cr.	15.12	December-15	30% Work completed
12	Beautification of Garden In front of B.S.P. HS School Sector-1 Ward No. 38	Nigam Fund	21.05	January-16	30% Work completed
13	Supply and Installation of Playing Equipments at Nehru Nagar Gardens Ward No.02	Nigam Fund	19.97	November-15	50% Work completed
14	Upgradation and Beautification of Childrens Garden at Priyadarshani Parishar east Ward No. 03	Nigam Fund	15.22	December-15	25% Work completed

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.

For improvement of existing services we have additional infrastructure to improve the services. For successful implementation and management effective communication strategy and stake holder will be required. There is a need to prepare a comprehensive master plan so as to meet present gap and future requirement. Implementation of this plan would ensure exchanged quality of life to the citizen of the city and hygienic environment.

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)

Tabel 4: Cost Estimates for Park Development

S.No.	Component	Rate	Amount in Rs Cr
1	Preparation of DPR	Lumpsum, Item rate	1
2	PriyadarshniParisar Amusements Park	Item Rate, Lumpsum and SOR	18.5
3	48 nosProposed HAP (Housing area Park)	Item Rate, Lumpsumand SOR	9.6
4	Botanical Garden	Item Rate, Lumpsumand SOR	9.75
5	Green Belt along to GE road in front of Nehru Nagar old HIG Banglaw	Item Rate, Lumpsumand SOR	4.3
6	Liner park (Green forest along to GE Road)	Item Rate, Lumpsumand SOR	8.2
Grand Total			51.35

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)

- Question: Has all relevant stakeholders groups been involved in the consultation?
Yes. Through website of BMC citizens can give their views, suggestion.
- Question: Explore option for O&M Contracts including PPPP with (RWAs/ Citizens Groups/ Corporate Groups – CSR, Selling advertisement rights etc.)
- Question: Explain how the city plans to establish a system of maintenance with active citizen's engagement as per AMRUT Guidelines.
- Question: Has ward/ zone level consultations held in the city?
- Question: Has alternatives explored are crowd sourced?
- Question: What is feedback on the suggested alternatives and innovations?
- Question: Has alternative taken up for discussions are prioritized on the basis of consultations?
- Question: What methodology adopted for prioritizing the alternatives?

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?
- Has projects been converged with other program and schemes?
- Has projects been prioritized based on "more with less" approach?

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)

The land is available for new parks development. NOC form respective departments like PWD, National Highway, BSP shall be obtained as per requirement of site.

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)

Necessary approvals shall be taken from pollution control board and respective departments as per project requirement.

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)

- How the proposed finance plan is structured for transforming and creating infrastructure projects?
- list of individual projects which is being financed by various stakeholders ?
- Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?
- Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations ?
- Have the financial assumptions been listed out ?
- Does financial plan for the complete life cycle of the prioritized development?
- Does financial plan include percentage share of different stakeholders (Centre, State, ULBs and)
- Does it include financial convergence with various ongoing projects.
- Does it provide year-wise milestones and outcomes?

Details in financial plan shall be provided as per Table 2.7, 2.8, 2.9, 2.10 and 2.11. These tables are based on AMRUT guidelines tables 2.1, 2.2,2.3.1,2.3.2, and 2.5.

TABLE 8.2 DETAILS OF PRIORITIZED PROJECTS PROPOSED UNDER AMRUT DURING FINANCIAL YEAR(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	Preparation of DPR		Quality & Coverage			1
2	PriyadarshniParisar Amusements Park	Sculpture Monuments, Murals Pathway, Boundarywall, Landscaping Musical Fountain Garden, Playing Equipment's for Children, Water Fun Park, Mini Toy Train Lighting, Water Supply, Entrance Gate	Coverage	17.98 sq.m. per person	10-12 sq.m. per person	18.5
3	48 Proposed HAP	Fencing, Pathway, Flower Bed, Lighting, Garden Playing Equipment's.	Coverage	4.73sq. m. per person	3 sq.m. per person	9.6
4	Botanical Garden	Seeds for Medicinal Plants, Fencing, Pathway, Flower Bed, Lighting, Garden Playing Equipment's	Coverage	17.98 sq.m. per person	10-12 sq.m. per person	9.75
5	Green Belt along to GE road in front of Nehru Nagar old HIG Bungalow	Fencing, Pathway, Flower Bed, Lighting,	Coverage	17.98 sq.m. per person	10-12 sq.m. per person	4.3
6	Linear park (Green forest Parallel to GE Road) Oxygen Zone Area.	Fencing, Pathway, Flower Bed, Lighting,	Coverage	17.98 sq.m. per person	10-12 sq.m. per person	8.2
Total						51.35

TABLE 8.3 ANNUAL FUND SHARING PATTERN FOR GREEN SPACE PROJECTS

(As per Table 2.3.1 of AMRUT guidelines) (Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				Total
			GOI	State(30%)	ULB 20%	Others	
1	Preparation of DPR	1	0.5	0.3	0.2	-	1
2	PriyadarshniParisar Amusements Park	18.5	9.25	5.55	3.7	-	18.5
3	48 Proposed HAP	9.6	4.8	2.88	1.92	-	9.6
4	Botanical Garden	9.75	4.87	2.92	1.95	-	9.75
5	Green Belt along to GE road in front of Nehru Nagar old HIG Bungalow	4.3	2.15	1.29	0.86	-	4.3
6	Linear park (Green forest Parallel to GE Road) Oxygen Zone Area.	8.2	4.1	2.46	1.64	-	8.2
	Total	51.35	25.67	15.40	10.27		51.35

