

BILASPUR MUNICIPAL CORPORATION, BILASPUR (C.G.)

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 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), Neighborhood 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?**

The list of reports data set available regarding development and maintenance of parks is as follows:

New parks are assigned for development to the contractors. Contract is given by the Horticulture Department of the Bilaspur Municipal Corporation. Maintenance of the parks is undertaken by BMC by contracted staff.

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

As per present master plan review of space earmarked open/green space is listed total No. 149. As per the master plan 59 parks are developed by Boundary wall with gate, green carpeting, water facility, benches and some of them are furnished with lighting arrangement. 90 parks are undeveloped without any above facilities.

- **Does the ULB follow URDPFI Guidelines to categorize its organized 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?**

Yes, at present the ULB follows URDPFI guidelines to categorize its greens/ parks/ open space

- **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	14.70 sq.m. per person	10-12 sq.m. per person
2	Per Person Open Space in Built-Up Areas as per National Building Code (NBC)	1.60 sq.m. per person	3.00 sq.m. per person

Source: URDPFI – 2014 & Analysis of ULB Level Data

Note –

1. As per draft development plan 2031 for Bilaspur project population is 15 lakhs and land reserve for organized greens/ parks/ open space is – 2205.67 Hectare.
 2. As per census 2011 population of BMC area excluding railway area is 302288 & total area of Green & open space – 484542.00 Sqm.
- **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)**
Preparation of park wise inventory of facilities and amenities is in process. In total there are 149 parks. So far inventory of only 59 parks has been completed. Work is in progress for completing the inventory of rest of the parks. 2 Numbers of the parks have been identified which will be develop in year 2016-17.
 - **How 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)**
The physical condition of the parks in the city is not very satisfactory. Out of the total 149 parks 59 have boundary wall and fencing, 38 have public facilities like lighting, dustbin & RCC benches and 37 parks have tube well.
 - **Whether parks have well planned play area encouraging physical activity? Are they equipped with child friendly play equipments, snack/ ice cream parlors/ kiosks etc. (Mention in proportions, if possible)**
Out of 149 only 10 garden have play equipment's for children & 2 gardens have snack/ ice cream parlors/ kiosks etc.
 - **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)**
Smritivan recreation park 112874 Sq.m. has been developed with all the facilities by BMC and one solar park area 52631 sq. m. has been developed by CREDA state Govt. Vivekanand park 15428 sqm has been developed with 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?**
 - Currently funds for development of parks/ green spaces in the ULB is provided through State Govt. of Chattisgarh Budget.
 - The park in R. K. Nagar Ph II near overhead water tank has been developed by local community & BMC.

- **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.**

As per the development plan of the city, space is reserved at various locations in the city for development of parks and green areas. In housing area it is mandatory to reserve space for development of parks in the layout of the housing society. A layout is approved only if it shows space for parks and parks is developed in the future.

- **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.**

SECL, PWD Colony, Forest Colony and Private sectors firms developed Parks and open space in the housing colony excluding railway area.

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	6	3,20,408.46	12.50%
2	Development Authority/Psu.	93	1,08,484.45	64.20%
3	Private Ownership – Corporate/ NGOs	50	41,548.17	23.30%
	Total	149	4,70,441.08	100%

Source: Analysis of ULB Level Data

Table 3: Hierarchy of Organized Greens in the City (as per URDPFI Guidelines-2014)

Sr. No	Category	No. of Parks	Area under the category	% Area under Parks/ Open Space
1	Housing Area Park (HAP) (Less than 5,000 sq.m.)			
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	District Park (DP) (50,000 – 2,50,000 sq.m.)			
	Total			

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).**

Physical assessment of city parks has been done by ULB. (as per Annex-1)

A. Community Park	-	06
B. Near Housing Colony	-	93
C. Neighborhood Park	-	50
Area of Park	-	470441.08 Sqm
Green Space (landscape)	-	14101.74 Sqm
Total area	-	484542.82 Sqm

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

After total assessment, area for green spaces is proposed in the development plan 2031 as per URDPFI norms and space requirement has been identified as per NBC code. A gap of 120815.2 Sqm has been currently identified. It will be covered by providing additional space.

- **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.**

Development plan 2033 of Arpa special area development authority has been approved by state Govt. in February 2014 and 87.73 Ha have been reserved for green space out of total 652.80 Ha. Draft Master plan of Bilaspur city 2031 also suggests reservation of 3229.95 Ha for green cover.

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

Provision has been made in the development plan of ASADA & Bilaspur City.

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

Child friendly components have been installed in Vivekanand Udhyan in city core area having 15428 sqm. Slum rehabilitate area (Vambay Imlibhata) parks have also been provided with child friendly equipment. The Municipal Corporation is planning for the procurement of child friendly items like slider and swing for all 149 nos. of Parks

- **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**

O&M Contracts system will be develop with the help of NGO, citizens group, welfare society, commercial origination and PSU as per AMRUT guidelines consultation.

- **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 4: Status of Ongoing/ Sanctioned

Sr.No.	Name of Project	Scheme Name	Cost (Rs Lakhs)	Month of Completion	Status (as on dd Mar. 2016)
1	Construction of boundary wall and development of various 26 Gardens	BMC State Govt.	230.25	Oct. 2016	65% (Construction of Boundary wall and gates are in progress)
2	Development of Gardens and road side landscaping	BMC State Govt.	196.06	-	Tender Process
	Total		426.31		

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.**

Development of Various colony Green/Open space which have been reserved but not yet developed into parks & playing area. These will be developed as per norms of URDPFI guidelines and will be maintained with the help of RWA's/citizen groups.

Arpa Special Area Development project will be executed on PPP model by ASADA total planned area is 652.80 Ha. Out of which 87.73 Ha. Has been reserved as green area

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)

- Alternatives for completion of ongoing projects include:
 - a. Quick Planning & estimation pertaining to development of parks and green spaces.
 - b. Existing 149 parks and open space can also have play area and associated facilities for children, youth & elderly.
 - c. Roadside landscaping and providing of fountains in 16nos of parks.

Table 5: Cost Estimate for Park Development

S. No.	Name of the ULB	Component	Unit	Rate	Amount in Rs.Cr
1	Bilaspur	Swing	Nos.	17300	2473900
2		Slider	Nos.	38500	5120500
3		Lighting	Nos.	80000	11760000
4		RCC Benches	Nos.	4400	3577200
5		Dust Bins	Nos.	15000	6090000
6		Boundary wall	RM	3100	21510900
7		Water Facilities	Each	20000	2980000
8		Walkway	RM	150000	22350000
9		Plantation & Maintenance	Sqm	33500	4991500
		Total			8,08,50,000

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
There are several consultation have been conducted related to Smart City scheme in the town with the presence of BMC personnel, Ward Counselors and community members of respective wards. But the Specific consultation have not been done because the development works are ongoing by BMC.
- **Has ward/ zone level consultations held in the city?** – Yes (consultations have been conducted in ward no. 3,4,10,7,17 & 18, but no minutes or records are available)
- **Has alternatives explored are crowd sourced?** – Yes
- **What is feedback on the suggested alternatives and innovations?**
The citizens want clean and green city with spaces for children playing area, and walking, clean & green area for senior citizen & adventure parks for youth.
- **Has alternative taken up for discussions are prioritized on the basis of consultations?**
Yes, as per discussions and consultation prioritized the proposal.
- **What methodology adopted for prioritizing the alternatives?**
The methodology adopted for prioritizing the alternatives as per discussion of public & public opinion & suggestions. Proposals will be prepared.

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?**
By State Govt., AMRUT & the help of SECL, NTPC CSR fund.
- **Has projects been converged with other program and schemes?**
Yes
- **Has projects been prioritized based on “more with less” approach?**
Yes

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)

Land is available for projects related to development of parks and green spaces. There is no need to obtain NOC for environmental & social obligation and clearances. Financial approval is required from state Govt.

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)

Development of park proposal will be prepared in consultation with RWA's and local community members will be given the responsibility of maintaining and developing park. Implementation of smoke free zones, engagement of guards, availability of First Aid Kit etc.

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?**
Consultation to RWA's & as per requirement.
- **List of individual projects which is being financed by various stakeholders?**
List of individual projects which is being financed by donor or other agencies is as follows:
 - a. **Park in R. K. Nagar Ph II near overhead water Tank.**
- **Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?**
Yes, funding partners consult for financial convergence.
- **Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations?**
Yes
- **Have the financial assumptions been listed out?**
Yes
- **Does financial plan for the complete life cycle of the prioritized development?**
Prepared with the help of consultant.
- **Does financial plan include percentage share of different stakeholders (Centre, State, ULBs and)**
Yes
- **Does it include financial convergence with various ongoing projects?**
State Govt. funding only.
- **Does it provide year-wise milestones and outcomes?**
Yes

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.

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Annex-1: Indicative Assessment Tools for Parks (Indicative – ULBs can have its own assessment tool as per the requirement or customize this tool to suit its need)

- **Survey work is in progress to list out the green /open space with area and available facility and requirement of facilities has per categorization of parks.**

Name of the Park: Vivekanand

Sl. No.	Element	Sub-Element	Assessment Parameter
1	General Space	Open/ Green space, landscaped area (manicured etc.), General areas for large organised social interaction.	Average size, Condition, Flatness and Proximity to water areas.
2	Paved Pathways	Existence and Surface	Condition, Width, Flatness, Obstruction and Shade.
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size, Water quality, and Movement.
4	Eating/ Drinking features	Drinking water facilities, picnic areas, vending. Tube well, Space for Vendors – local snacks, ice cream kiosks.	Condition, Ground flatness, Openness, Visibility, and Supply source
5	Facilities	Metallic Fence/ Boundary Wall, Theme based Entry Gate, Recreation Centre Shelters/ Pavilions/ Entertainment venue/ Stage/ Amphitheatre, Basic Illumination with designer lamps using LED lights, Parking Space, Compost Beds, Public Conveniences, Dustbins, Rain Water Harvesting structures for paved area wherever possible (for optimum utilisation of water),	Size, and Condition.
6	Sitting or Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semi-Pucca / Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Condition, Comfort, Landscaping, and Shade.
7	Landscaping	Flowers, shrubs/bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains, sculptors of personalities, Drawing wall for children, Illumination, Garden Clocks.	Variety, Colour, and Condition
8	Play Set/ Structures (for Children)	General play set, soft ball play area, thing to hang from, slide down, climbing, descending and standing features, swings, blacktop, spring, toys, imaginary play structures, hanging sets – sea saw etc.	Openness, Visibility, Coverage / Shade, Condition, and Levelness, Colourfulness, Size of feature, and Height of ground.
9	Play Area (for	Badminton courts, Kabaddi area, kite	Condition, Drainage, and

Sl. No.	Element	Sub-Element	Assessment Parameter
	Adolescent)	flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	Perimeter.

Table 6: Master Plan of Projects w.r.t. Park Development 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	Community Park-2 Nos. 1. Vivekanand Park – 15428 SQM 2. Bandhwapara Talab – 129449 SQM	1	2015-16	2016-17	0.45
2	Neighbourhood Park-50 Nos.	2	2016-17	2017-18	2.37
3	Housing Area park-93 Nos.	3	2017-18	2018-19	5.26
Grand Total					8.08

**Table 7: 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	Community Park-2 Nos.	Green space, Plantation, Dust been, sitting arrangement	Per Person Open Space in Plain Areas as per URDPFI	8.5 SQM per person	12.00 SQM per person	0.45
2	Neighbourhood Park-50 Nos.	Green space, Plantation, Dust been, sitting arrangement, playing equipment & Lighting arrangement	Per Person Open Space in Built-Up Areas as per National Building Code (NBC)	1.6 SQM per person	3.00 SQM per person	2.37
3	Housing Area park-93 Nos.	Fencing, Plantation, Dust been, sitting arrangement, playing equipment & Lighting arrangement				5.26
Total						8.08

**Table 8: Annual Fund Sharing Pattern for Projects w.r.t to Park Development
(As per Table 2.3.1of AMRUT guidelines)**

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				
			GOI	State	ULB	Others	Total
1	Community Park-2 Nos.	0.45	0.225	0.135	0.09		0.45
2	Neighbourhood Park-50 Nos.	2.37	1.185	0.711	0.474		2.37
3	Housing Area park-93 Nos.	5.26	2.63	1.578	1.052		5.26
Total		8.08	4.04	2.424	1.616		8.08

Table 9: Annual Fund Sharing Break-up for Projects w.r.t to Park Development

(As per Table 2.3.2 of AMRUT Guidelines)

(Amount in Rs.Cr)

Sr. No.	Project	Gol	State			ULB			Convergence	Others	Total
			14 th FC	Others	Total	14 th FC	Others	Total			
1	Community Park-2 Nos.	50%		30%	30%	20%		20%			100%
2	Neighbourhood Park-50 Nos.	50%		30%	30%	20%		20%			100%
3	Housing Area park-93 Nos.	50%		30%	30%	20%		20%			100%
Total		4.04			2.424			1.616			8.08

Table 10: Year wise Plan for Service Levels Improvements

(As per Table 2.5 of AMRUT guidelines)

Proposed Projects	Total Project Cost (Cr)	Indicator	Baseline	Annual Targets (Increment from the baseline Value)					
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020
				H1	H2				
Others (Park)									
	4.3	11. (in Sqm/Head)	1.6 Sqm/Head	1.85 Sqm/Head	2.00 Sqm/Head	2.50 Sqm/Head	3.00 Sqm/Head	3.00 Sqm/Head	3.00 Sqm/Head

