

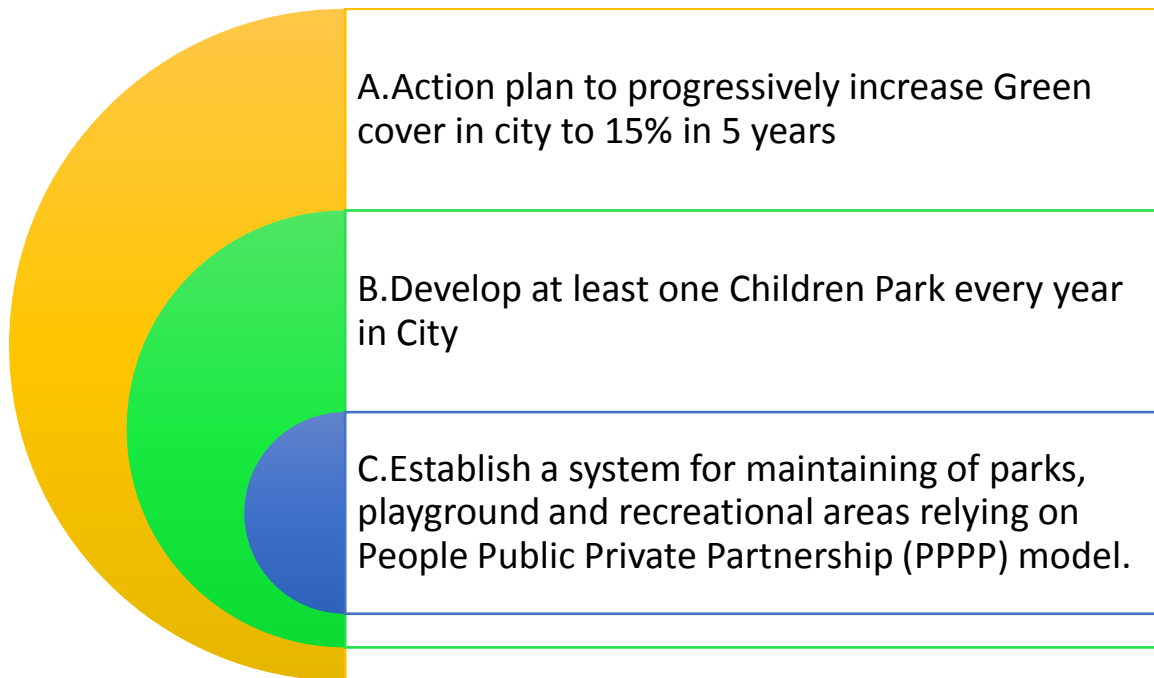


Municipal Corporation Bhilai ,Chhattisgarh

2015-2020

Vision, Strategy & Action Plan for Bhilai city “An inclusive Green Growth approach”

i/c



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1.Green Growth Vision

“Enhancing amenity value of cities by creating and upgrading green spaces, parks and recreation centers, especially for children, Divyang and Elderly with connected urban green for making our cities attractive ,sustainable and resilient”

2.Background:

Cities are the drivers of development, growth and investment. But rising consumption and production in cities is causing more than 70 percent of global greenhouse gas emissions, and cities are vulnerable to climate impacts, such as urban heat island , heat waves and drought. If cities continue to develop according to the prevailing 20th century model, it will not be possible to prevent severe climate change.

Green cover are critical component of Urban & Peri-urban environment which moderate microclimate, enable ground water recharge, provide shade and conserve local biodiversity, improve quality of life for city dwellers by providing recreational avenues. Much needed public space for better social cohesion, significant health benefits. aesthetics as well as mitigating climate change. Urban forests not only act as green lungs of the city but also provide highly valuable ecological and environmental services. Trees on the roadsides often serve as a shelter / resting place providing relief to the poor in harsh climate. Green spaces in urban areas also serve as insurance against natural disasters. Tree covers and urban greens significantly reduce the cost of management of urban areas as well as positively impacts health of its residents. Trees as such are an important component of the urban infrastructure as they provide significant amelioration against urban heat island effects and flooding due to storm water . The trees also serve as reservoir of urban biodiversity and loss of trees adversely impacts biodiversity.

3.Green Cover in City

There is dearth of information about tree cover in urban areas especially for our city and urban agglomerations, as this work has not be attempted in a systematic manner by ULB, Government Departments. academic organizations or NGOs. Green spaces, quiet streets and recreational parks are important for relaxation, health and sport, nature watching and social activities. Open areas and green parks are important building blocks for promoting quality of life in urban environments.

4. Definition of Green Cover:

All Green Areas including, Tot-Lots, Neighbourhood Parks, City Level Parks, Parks in Private Colonies, Green Buffer, Regional Parks, Forrest Area, any Other Parks , Recreational space or as defined by GoCG.

5. Issues on conservation of urban greens and trees in city environment:

Some of the important issues with respect to conservation of urban greens and trees are mentioned below:

- I. Absence of long term planning resulting in frequent changes in land use. As a result, there is lack of integration of trees/ greens in planned development process and trees are often planted as an afterthought.
- II . Land covered with trees is viewed as loss of opportunity cost when compared to the land put to commercial and infrastructural uses. There is tremendous pressure on green areas/ trees for competing land uses especially for expanding infrastructure.
- III. Limited space available for tree planting. Trees are often viewed as obstruction to development and therefore become the first casualty in the process.
- IV . Water scarcity, refractory soil and stressful growth conditions impact proper growth and health of trees. Leading to high cost of development and maintenance. Lack of trained manpower for management of greens is also poses serious problem.
- v. High public pressure on urban greens due to high floating population. Urban poverty and homelessness encourages squatting in open areas reserved for trees.
- VI. Lack of respect, sensitivity and care often from different cross sections of the society.
Green spaces/ young plantations/ saplings prone to vandalism.

6. Strategy to enhance tree cover

Urban greens would include forest land if any, tree groves, parks, tree lined avenues in public land as well as in private and institutional property. There is a need for a well defined strategy for enhancing tree cover in urban areas. The strategy should consist of a multipronged approach to integrate development of tree cover as a part of the development plans of cities by viewing them as a component of urban infrastructure. There is a need for a comprehensive vision based policy with enough flexibility so as to strike a balance between the requirement of protecting and enhancing tree cover and overall urban development. Urban greens including trees should be considered as an integral component of urban renewal projects implemented by the ULB. Urban green projects must be supported by participatory planning and implementation process for actualizing the spirit of cooperative federalism.

7. Key strategies and action plan to increase green cover in the next five years:

Accessing to nature through green space will require planting more trees on our streets and public spaces, as well as adding more green space to our existing neighbourhood level planning and projects. Since these actions happen at a local level, a robust public engagement process where local community groups, residents welfare association, educational institution

and business community are actively involved in this transformation will be necessary to achieve success.

7.1 Build and upgrade parks and green spaces:

Strategy to achieve a five minute walk to a park or green spaces includes building new parks in park-deficient areas and upgrading street, footpaths walk ways into green spaces through additions such as new trees, public art etc.

7.2 Selection of Area For Project Prioritization

Localities with number of park, doable space availability and tree-density in particular area will be selection parameter for area and project prioritization. Every year two localities will be selected through community level competition process. This competition will be conducted by third party facility management agency such as NGOs, Media House, PR agencies or other consulting agencies. The one-year goals for these localities are to ensure:

1. Maximum utilization of open space in a street or park is planted with tree.
2. Encourage private/Institutional property owner for tree plantation in there land with own O&M .
3. Increase in per capita open spaces ratio.
4. 5 Minute walk park and place making.
5. Inclusion of features of child, elderly and divyang friendly features.
6. Street plantation and green place making in select area.
7. Promotion PPPP driven O&M mechanism for select area .
8. Promotion of PPP based park development scheme for select area.
9. Participatory planning process and Idea camp for place making for select area.
10. Community based Street art and façade improvement project for select area.
11. Improvement of existing plan as per green growth approach strategy for select area.

7.3 Creation of Detailed Project Report

PDPMC appointed under AMRUT Mission will develop comprehensive ,integrated detail project report for city. This project report will consist of :-

7.3.1 Assessment of existing situation

1. Preparation of inventory of all Green Cover in the City Limits including details of :
 - Area of Green Cover
 - Type/Level of Park,
 - Land Ownership,
 - Development Status (Boundary, landscaping, Furniture's, Lighting, other feature),
 - Operation and Management Status (Maintenance Body, User Charges if any)
 - Master plan area for green and recreation use and its current situation.

- Other allied Data
 - Assessment of Existing Proposals
 - Proposed Green Cover in Development Plan
 - Proposals for Development of Green Cover in various Schemes.
 - Convergence plan with various government scheme
 - Proposed Green Cover in Municipal Corporation
 - Assessment of available resources for Development and O&M of Green Cover
 - Funding sources and Cost involved in development and Management of Green Cover by public bodies, RWA, NGO, and Private bodies.
 - Human Resources and Physical resources available with various departments for Development and O&M of green areas
2. Identification of GAP to achieve at least 15% of Green cover in the City Limits.
 3. Preparation of project based various Plan (Implementation plan, Financial plan, Resource plan, O&M plan, Convergence plan, Fall back plan etc.)
 4. Detail project Planning for Green space required to cover the GAP
 - a. Area of Green Cover Required
 - b. Bifurcation of proposed green cover in various type of Green cover
 - c. Identification of resources required for development (Land, Financial resources and Human Resources)
 - d. detailed estimation and drawing design
 - e. Formulation of Strategy/Model for development, based upon the available resources.
 - f. Strategy for development of Neighbourhood Parks and Tot-lots. (PPP and PPPP model shall be explored)
 - g. Strategy for development of City Park and Regional Park
 - h. Strategy for development of green buffer spaces and other green space.
 - i. Identification of roles and responsibility of various authorities agencies.

7.3.2 Enclosed:

1. The Draft List of parks/gardens identified for development in the next 5 years.
2. The list of parks and gardens developed in past years.

Annex 1:- List of Gardens to be developed by Bhilai Municipal Corporation

Sr. No.	Ward No.	Name of Garden	Locality	Boundary (Yes/No.)	Playing Equipment (Yes/No.)	Total Area in sqft	Cost in Rs.Crs (assuming 150 per sqft)
1	2	Ward 02 Nehru Nagar East Shastri Garden	Nehru nagar	Yes	Yes	38736 sqft	0.59
2	32	Ward 32 Anda Chowk Garden	Khursipar	Yes	Yes	36100 sqft	0.54
3	46	Ward 46 Garden	Sector 06	Yes	Yes	51648 sqft	0.77
4	1	Ward 01 Utkal Vrindavan Garden	Model Town	Yes	Yes	30128 sqft	0.45
5	2	Nehru Nagar East Bakshi Garden	Nehru Nagar	Yes	Yes	29052 sqft	0.43
6	8	Ward 08 Ayappa Nagar Kohka Bal Garden	Kohka	Yes	Yes	38736 sqft	0.58
7	19	Ward 19 Arjun Nagar Dashra Ground Garden	camp 1	Yes	Yes	27201 sqft	0.40
8	28	Ward 28 Garden	Khursipar	Yes	Yes	14978 sqft	0.22
9	16	Ward 16 M.I.G. 2348 Garden	Housing Board	Yes	Yes	55586 sqft	0.83
10	37	Ward 37 Sector 01 Street 35,36 & 31 Garden	Sector 01	Yes	Yes	21520 sqft	0.32
11	38	Ward 38 Sector 01 Street 08 & 10 Garden	Sector 01	Yes	Yes	11620 sqft	0.17
12	39	Ward 39 Sector 02 Vivekanand Garden	Sector 02	Yes	Yes	12912 sqft	0.19
13	40	Ward 40 Sector 02 A Market Ground South Garden	Sector 02	Yes	Yes	34432 sqft	0.51
14	41	Ward 41 Sector 03 Garden	Sector 03	Yes	Yes	12912 sqft	0.19
15	42	Ward 42 Sector 04 East Street 07 & 08 Block 7A Garden	Sector 04	Yes	Yes	25824 sqft	0.38
16	43	Ward 43 Sector 04 West Street 29 & 30 Post Office East Garden	Sector 04	Yes	Yes	25824 sqft	0.38
17	44	Ward 44 Sector 05 East Street 12 & 13 Block 4D Garden	Sector 05	Yes	Yes	19368 sqft	0.29
18	45	Ward 45 Sector 05 East Street 41 & 42 Telecom Office Garden	Sector 05	Yes	Yes	22596 sqft	0.33
19	46	Ward 46 Sector 06 C Market Garden	Sector 06	Yes	Yes	16140 sqft	0.24

20	47	Ward 47 Sector 06 S.B.I. Colony East Ground Garden	Sector 06	Yes	Yes	24210 sqft	0.36
21	48	Ward 48 Sector 06 East 35 & 36 Ground Garden	Sector 06	Yes	Yes	29052 sqft	0.43
22	26	Ward 26 Sector 07 Talab Garden	Sector 07	Yes	Yes	25824 sqft	0.48
23	50	Ward 50 Sector 07 Street 33 Water Tank East Garden	Sector 07	Yes	Yes	25824 sqft	0.38
24	50	Ward 50 Sector 08 Street 02 & 01 Block 01 Garden	Sector 08	Yes	Yes	25824 sqft	0.38
25	52	Ward 52 Hospital Sector Sector 09 & 10 School Garden	Sector 09	Yes	Yes	25824 sqft	0.38
26	52	Ward 52 Garden	Sector 09	Yes	Yes	25824 sqft	0.38
27	53	Ward 53 Sector 10 Street 4A S.B.I. Back Side Garden	Sector 10	Yes	Yes	29590 sqft	0.44
28	53	Ward 53 Garden	Sector 10	Yes	Yes	21520 sqft	0.32
29	55	Ward 55 Ruwabandha Sector Block 16 Ganesh Ground Garden	Ruwabandha	Yes	Yes	19368 sqft	0.29
30	55	Ward 55 Ruwabandha Sector H.S.C.L. Colony Block 39 Garden	Ruwabandha	Yes	Yes	21520 sqft	0.32
31	58	Ward 58 Risali Sector Garden	Risali Sector	Yes	Yes	21520sqft	0.32
32	56	Ward 56 Garden	Hudco	Yes	Yes	43040 sqft	0.64
33	57	Ward 57 Garden	Hudco	Yes	Yes	25824 sqft	0.38
34	59	Ward 59 Risali Sector K Pocket West Block 01 Garden	Risali Sector	Yes	Yes	25824 sqft	0.38
35	60	Ward 60 Maroda Sector K Poket West Block 01 Garden	Maroda Sector	Yes	Yes	21520 sqft	0.32
36	60	Ward 60 Maroda steel club East Garden	Maroda Sector	Yes	Yes	172160 sqft	2.58

Annex 2:- The List of Parks and garden developed in past years

Sr . No.	Ward No.	Name of Garden	Locality	Boundary (Yes/No.)	Playing Equipment (Yes/No.)	Total Area in sqft
1	2	Ward no 02 Nehru Nagar Shyama Prasad Mukharji Garden	Nehru Nagar	Yes	Yes	25824 Sqft
2	2	Ward no 02 Nehru Nagar Ganesh Garden	Nehru Nagar	Yes	Yes	25824 Sqft
3	2	Ward no 02 Nehru Nagar Ekta Garden	Nehru Nagar	Yes	Yes	25824 Sqft
4	2	Ward no 02 Nehru Nagar Gandhi Park	Nehru Nagar	Yes	Yes	271152 Sqft
5	2	Ward no 02 Nehru Nagar Milliimum Park	Nehru Nagar	Yes	Yes	30989 Sqft
6	2	Ward no 02 Nehru Nagar Ashok Garden	Nehru Nagar	Yes	Yes	43040 Sqft
7	2	Ward no 02 Priyadarshini Parishar East Gulmohar Garden	Priyadarshini Parishar	Yes	Yes	59266 Sqft
8	2	Ward no 02 Nehru Nagar Bharat Mata Garden	Nehru Nagar	Yes	Yes	10652 Sqft
9	3	Ward no 03 Priyadarshini Parishar east Patrakar Colony	Priyadarshini Parishar	Yes	Yes	19368 Sqft
10	56	Ward no 56 Hudco Bharat Mata Garden	Hudco	Yes	Yes	24210 Sqft
11	3	Ward no 03 Priyadarshini Parishar East Children Park	Priyadarshini Parishar	Yes	Yes	59266 Sqft
12	8	Ward 08 Kohka Bajrang Para Children Park	Kohka	Yes	Yes	4842 Sqft
13	10	Ward no 10 Vaishali Nagar Shwetambar Mandir Road Garden	Vaishali Nagar	Yes	Yes	25878 Sqft
14	10	Ward no 10 Vaishali Nagar Water Tank no 03 Garden	Vaishali Nagar	Yes	Yes	38736 Sqft
15	11	Ward no 11 Dushahra Ground Garden	Shanti Nagar	Yes	Yes	18830 Sqft
16	13	Ward no 13 Bhagirathi Garden	Ram Nagar	Yes	Yes	86349 Sqft
17	15	Ward no 15 Housing Board Colony Garden	Housing Board	Yes	Yes	34281 Sqft
18	16	Ward no 16 Housing Board Garden	Housing Board	Yes	Yes	20014 Sqft
19	19	Ward no 19 Arjun Nagar Garden	Camp 01	Yes	Yes	19368 Sqft

20	3	Ward no 03 Sanjay Nagar Talab Garden	Supela	Yes	Yes	75320 Sqft
21	2	Ward no 02 Chatrapati Shivaji Garden	Nehru Nagar West	Yes	Yes	25350 Sqft
22	62	Ward no 62 Ruwa bandha Talab Children Park	Ruwa Bandha	Yes	Yes	25824 sqft
23	49	Ward no 49 Sector 07 Garden	Sector 07	Yes	Yes	43040 Sqft
24	57	Ward no 57 Hudco in front of block 197	Hudco	Yes	Yes	34432 Sqft
25	2	Ward no 02 Bhelwa talab Garden	Nehru Nagar	Yes	Yes	118360 Sqft