

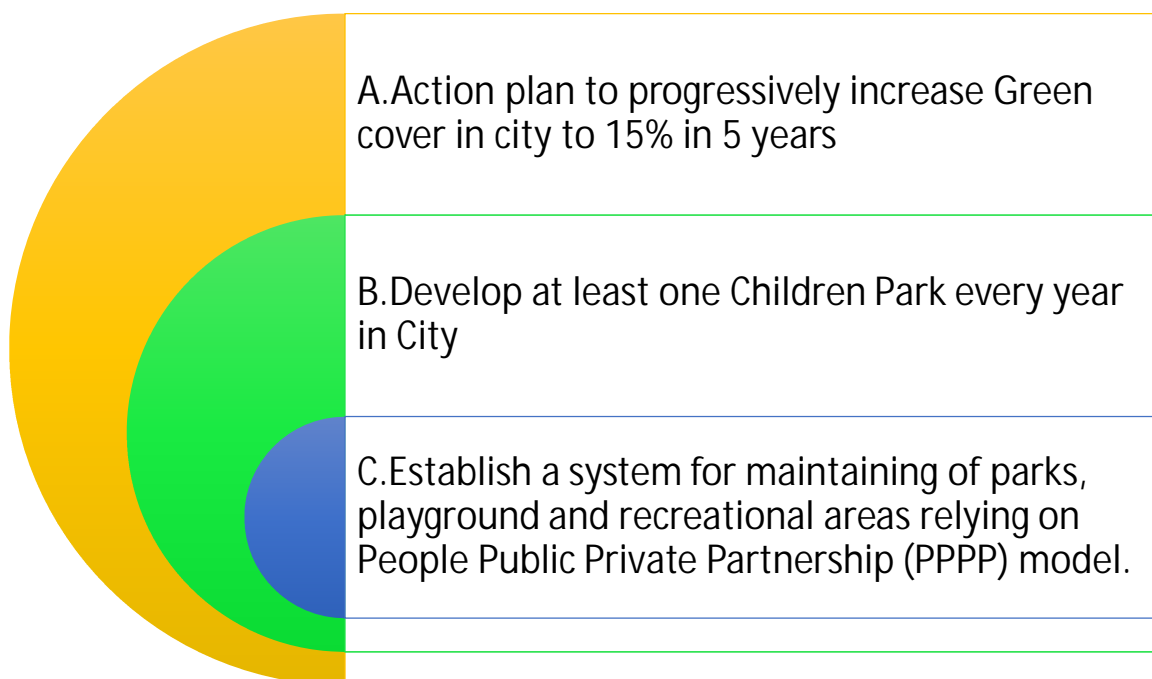
# Municipal Corporation Rajnandgaon, Chhattisgarh



2015-2020

## Vision, Strategy & Action Plan for Rajnandgaon 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

PDMC 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 Rajnandgaon 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)
		2011-12					
1.	06	MOTIPUR GARDEN	MOTIPUR	YES	NO	64010 Sqft	-----
2.	18	ASHA NAGAR GARDEN	REVADIH	YES	NO	62600 Sqft	22.15 Lacs
3.	19	MAHENDRA NAGAR GARDEN	MAHEDRA NAGAR	YES	YES	14531 Sqft	11.52 Lacs
4.	29	VIKAS NAGAR GARDEN	VIKAS NAGAR	YES	NO	25000 Sqft	28.20 Lacs
5.	15	CIVIL LINE GARDEN	CIVIL LINE	YES	NO	62636 Sqft	25.81 Lacs
6.	43	SANJAY NAGAR GARDEN	SANJAY NAGAR	YES	NO	6400 Sqft	25.76 Lacs
7.	02	SHITLA MANDIR GARDEN	NAYA DHABA	YES	NO	34444 Sqft	8.83 Lacs
8.	27	KANCHAN BAAG GARDEN	KANCHAN BAAG	YES	NO	9687 Sqft	7.22 Lacs
		2014-15					
9.	07	SANKARPUR GARDEN	SANKARPUR	YES	NO	12000 Sqft	14.00 Lacs
10.	17	PUNAM COLONY GARDEN	MAMTA NAGAR	YES	NO	5000 Sqft	4.14 Lacs
11.	19	JAL TARANG GARDEN	JAL TARANG	YES	NO	22000 Sqft	15.89 Lacs
12.	19	GYATRI COLONY GARDEN	GYATRI COLONY	YES	NO	1000 Sqft	3.20 Lacs
13	39	150 KHOLI GARDEN	150 KHOLI	YES	NO	15000 Sqft	19.20 Lacs
		2015-16					
14.	45	VAISHALI NAGAR GARDEN	RAMKRISHNA	YES	NO	13068 Sqft	12.79 Lacs
15.	45	KHANDELWAL COLONY GARDEN	RAMKRISHNA	YES	NO	18295 Sqft	17.58 Lacs
16.	45	SHRISTI COLONY GARDEN	RAMKRISHNA	YES	NO	10890 Sqft	20.02 Lacs
17	23	GARDEN NEAR BUDHA SAGAR	LAL BAHG	YES	NO	30128 Sqft	15.33 Lacs
18	23	GARDEN NEAR POLICE PETROL PUMP	LAL BHAG	YES	NO	8600 Sqft	15.75 Lacs
19	23	GARDEN NEAR POLICE STATION	LAL BHAG	YES	NO	9500 Sqft	17.24 Lacs
20	19	GARDEN NEAR GE ROAD INDUSTRIAL AREA	VARDHAMAN NAGAR	YES	NO	11000 Sqft	14.79 Lacs
21	19	GARDEN NEAR MAMTA NAGAR CHOWK	MAMTA NAGAR	YES	NO	9800 Sqft	13.68 Lacs

<b>22</b>	17	GARDEN NEAR PYARELAL CHOWK	PYARELAL CHAUK	YES	NO	3000 sqft	15.91 Lacs
<b>23</b>	29	GARDEN NEAR POWER HOUSE CHOWK	G.E.ROAD KAILASH NAGAR	YES	NO	4500 Sqft	17.70 Lacs
<b>24</b>	17	GARDEN NEAR HOMEGAURD CHOWK	G.E.ROAD	YES	NO	6000 Sqft	0.50 Lacs
<b>25</b>	19	GARDEN INFRONT OF SHAKTIGRIH	VARDHAMAN NAGAR	YES	NO	12000 Sqft	18.90 Lacs
<b>26</b>	16	GARDEN INFRONT OF LAW COLLEGE	G.E.ROAD	YES	NO	9000 Sqft	12.37Lacs
<b>27</b>	16	GARDEN NEAR IMAM CHOWK	IMAM CHAUK	YES	NO	8000 Sqft	16.57 Lacs
<b>28</b>	19	GARDEN INFRONT OF KAKKAD AUTO	G.E. ROAD	YES	NO	11,500 Sqft	17.00 Lacs

Annex 2:- The list of parks and gardens developed in past years

Sr. no	ward no.	Name of Garden	Locality	Boundary (YES/NO)	Playing equipments (YES/NO)	Total Area in Sqft
1.	06	MOTIPUR GARDEN	MOTIPUR	YES	NO	64010 Sqft
2.	18	ASHA NAGAR GARDEN	REVADIH	YES	NO	62600 Sqft
3.	19	MAHENDRA NAGAR GARDEN	MAHEDRA NAGAR	YES	YES	14531 Sqft
4.	29	VIKAS NAGAR GARDEN	VIKAS NAGAR	YES	NO	25000 Sqft
5.	15	CIVIL LINE GARDEN	CIVIL LINE	YES	NO	62636 Sqft
6.	43	SANJAY NAGAR GARDEN	SANJAY NAGAR	YES	NO	6400 Sqft
7.	02	SHITLA MANDIR GARDEN	NAYA DHABA	YES	NO	34444 Sqft
8.	27	KANCHAN BAAG GARDEN	KANCHAN BAAG	YES	NO	9687 Sqft
		2014-15				
9.	07	SANKARPUR GARDEN	SANKARPUR	YES	NO	12000 Sqft
10.	17	PUNAM COLONY GARDEN	MAMTA NAGAR	YES	NO	5000 Sqft
11.	19	JAL TARANG GARDEN	JAL TARANG	YES	NO	22000 Sqft
12.	19	GYATRI COLONY GARDEN	GYATRI COLONY	YES	NO	1000 Sqft
13	39	150 KHOLI GARDEN	150 KHOLI	YES	NO	15000 Sqft
		2015-16				
14.	45	VAISHALI NAGAR GARDEN	RAMKRISHNA	YES	NO	13068 Sqft
15.	45	KHANDELWAL COLONY GARDEN	RAMKRISHNA	YES	NO	18295 Sqft
16.	45	SHRISTI COLONY GARDEN	RAMKRISHNA	YES	NO	10890 Sqft
17	23	GARDEN NEAR BUDHA SAGAR	LAL BAHG	YES	NO	30128 Sqft
18	23	GARDEN NEAR POLICE PETROL PUMP	LAL BHAG	YES	NO	8600 Sqft
19	23	GARDEN NEAR POLICE STATION	LAL BHAG	YES	NO	9500 Sqft
20	19	GARDEN NEAR GE ROAD INDUSTRIAL AREA	VARDHAMAN NAGAR	YES	NO	11000 Sqft
21	19	GARDEN NEAR MAMTA NAGAR CHOWK	MAMTA NAGAR	YES	NO	9800 Sqft
22	17	GARDEN NEAR PYARELAL CHOWK	PYARELAL CHAUK	YES	NO	3000 sqft



23	29	GARDEN NEAR POWER HOUSE CHOWK	G.E.ROAD KAILASH NAGAR	YES	NO	4500 Sqft
24	17	GARDEN NEAR HOMEGAURD CHOWK	G.E.ROAD	YES	NO	6000 Sqft
25	19	GARDEN INFRONT OF SHAKTIGRIH	VARDHAMAN NAGAR	YES	NO	12000 Sqft
26	16	GARDEN INFRONT OF LAW COLLEGE	G.E.ROAD	YES	NO	9000 Sqft
27	16	GARDEN NEAR IMAM CHOWK	IMAM CHAUK	YES	NO	8000 Sqft
28	19	GARDEN INFRONT OF KAKKAD AUTO	G.E. ROAD	YES	NO	11,500 Sqft
29	15	NEHRU NAGAR COLONY GARDEN	NEHRU NAGAR	NO	NO	61022 Sqft
30	45	SAI DARSHAN COLONY GARDEN	KAURIN BHATA	NO	NO	-----
31	45	JEEVAN COLONY GARDEN	KAURINBHATA	YES	NO	35682 Sqft
32	45	RAM RAI COLONY GARDEN	KAURINBHATA	YES	NO	13874 Sqft
33	22	NILGIRI PARK	KAURINBHATA	YES	NO	19019 Sqft
34	45	BARFANI ASHRAM GARDEN	PENDRI	NO	NO	34487 Sqft
35	14	GAURI NAGAR GARDEN	WARD 17	NO	NO	-----
36	19	NEW KHANDELWAL COLONY GARDEN (IST)	WARD -12	NO	NO	4122 Sqft
37	07	PANDURANG COLONY GARDEN	STATIONPARA	NO	NO	14003 Sqft
38	45	JEEVAN VIHAR COLONY	KAURINBHATA	NO	NO	18879 Sqft
39	19	ANAND VIHAR COLONY GARDEN		NO	NO	-----
40	35	LAKHOLI GARDEN	LAKHOLI	NO	NO	43432 Sqft
41	08	RAM NAGAR GARDEN	RAM NAGAR	NO	NO	16501 Sqft
42	19	MAMTA NAGAR GARDEN	MAMTA NAGAR	YES	NO	4208 Sqft
43	19	NEW KHANDELWAL COLONY GARDEN (IInd)	WARD -12	YES		4208 Sqft
44	19	NEW KHANDELWAL COLONY GARDEN (IIIrd)	WARD -12	NO	NO	42033 Sqft
45	13	KUSUM NAGAR GARDEN	STATIONPARA	NO	NO	3896 Sqft
46	45	MUKTAGIRI COLONY GARDEN	KAURINBHATA	NO	NO	32657 Sqft
47	29	VEENA NAGAR GARDEN	LAKHOLI	NO	NO	26737 Sqft
48	46	BAIDHNATH NAGAR GARDEN	BASANTPUR	NO	NO	15187 Sqft
49	46	GREEN CITY COLONY GARDEN	BASANTPUR	YES	YES	28879

						Sqft
<b>50</b>	45	LAXMI NAGAR COLONY GARDEN	KAURINBHATA	NO	NO	18513 Sqft
<b>51</b>	45	RIDDHI-SIDDHI COLONY GARDEN PHASE 01	KAURINBHATA	YES	YES	17609 Sqft
<b>52</b>	45	RIDDHI-SIDDHI COLONY GARDEN PHASE 02	KAURINBHATA	YES	YES	17609 Sqft
<b>53</b>	45	PRAKASH NAGAR GARDEN	KAURINBHATA	YES	YES	9805 Sqft
<b>54</b>	45	RIDDHI-SIDDHI COLONY GARDEN PHASE 03	KAURINBHATA	NO	NO	10150 Sqft
<b>55</b>	32	SHANTI VIJAY RECEDENCY GARDEN	LAKHOLI	NO	YES	8611 Sqft
<b>56</b>	21	ESKAN DEVELOPERS GARDEN	REWADIH	NO	NO	47307 Sqft
<b>57</b>	45	KOTHARI COLONY GARDEN	KAURINBHATA	NO	NO	10860 Sqft
<b>58</b>	32	SUN CITY RESIDENTIAL GARDEN PHASE 01	LAKHOLI	NO	NO	54519 Sqft
<b>59</b>	32	SUN CITY RESIDENTIAL GARDEN PHASE 02	LAKHOLI	NO	NO	17362 Sqft
<b>60</b>	32	SUN CITY RESIDENTIAL GARDEN PHASE 03	LAKHOLI	NO	NO	31968 Sqft
<b>61</b>	48	BLUE DIAMAND RECEDENTIAL GARDEN		NO	NO	26565 Sqft
<b>62</b>	48	OSTWAL KUAA GARDEN (Abhinandan Developers)	NANDAI	NO	NO	24477 Sqft
<b>63</b>	21	ANUPAM NAGAR GARDEN (ESKAN Devlopers)		NO	NO	72979 Sqft
<b>64</b>	29	LAKHOLI GARDEN (Jashwindar Singh)	LAKHOLI	NO	NO	26156 Sqft
<b>65</b>	30	JANTA COLONY GARDEN (ESKAN BILDERS)	JANTA COLONY	NO	NO	13508 Sqft