

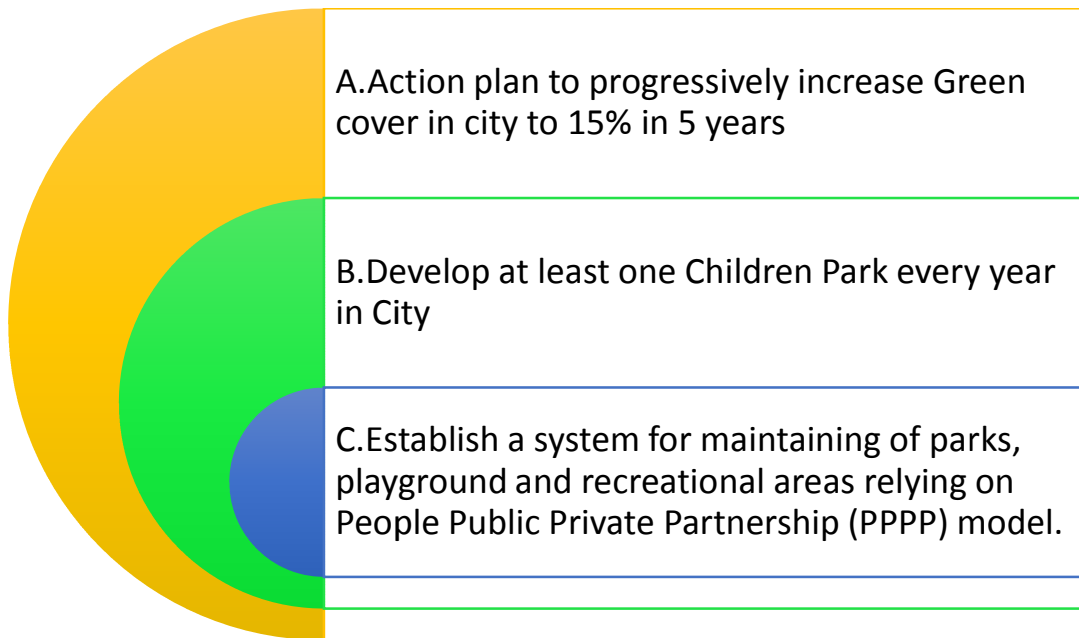


## Municipal Corporation Bilaspur Chhattisgarh

2015-2020

# Vision, Strategy & Action Plan for Bilaspur “An inclusive Green Growth approach”

i/c



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park/green of city

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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 and water fountains.

### 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 Bilaspur Municipal Corporation

Sr. No.	Ward No.	Name of the Garden	Locality	Boundary Yes/No	Playing Equipment Yes/No	Total Area in Sqft	Cost in Rs. Crs. Assuming 150 per Sqft.
1	1	Vinod Jaiswal	Vikash Nagar	No	No	2018.5776	302786.64
2	1	R. V. Projects and Developers	Vikash Nagar	No	No	1828.9936	274349.04
3	1	R. V. Projects and Developers	Vikash Nagar	No	No	1336.0752	200411.28
4	1	Sri Sanjeev Singh	Vikash Nagar	No	No	4926.9864	739047.96
5	1	Sri Sanjeev Singh	Vikash Nagar	No	No	1434.0488	215107.32
6	1	Sri Sanjeev Singh	Vikash Nagar	No	No	2816.6344	422495.16
7	1	Sri Sanjeev Singh	Vikash Nagar	No	No	2133.804	320070.6
8	1	Sri Praveen Chadda	Vikash Nagar	No	No	594.172	89125.8
9	1	Sri Arup Chadda	Vikash Nagar	No	No	1423.2576	213488.64
10	1	Sri Arup Chadda	Vikash Nagar	No	No	793.4648	119019.72
11	2	Neha Agarwal	Bishnu Nagar	No	No	657.5088	98626.32
12	3	Maithali Saran Gupt	Narmada Nagar	Yes	No	5904	885600
13	3	Infront of SBI	Narmada Nagar	Yes	No	1594.08	239112
14	3	Community Hall	Narmada Nagar	Yes	No	4536.896	680534.4
15	3	Pani Tanki, Nrmada Nagar	Narmada Nagar	Yes	No	6020.768	903115.2
16	3	Nehrunagar, Infront of Jangde House	Nehru Nagar	Yes	Yes	2164.8	324720
17	3	Janta Quarter	Nehru Nagar	Yes	Yes	1640	246000
18	3	Behind Shubham Manglam Apartment	Nehru Nagar	Yes	No	2301.904	345285.6
19	3	Chandni Awash	Narmada Nagar	Yes	No	1590.144	238521.6
20	3	Shanti Nagar Garden	Shanti Nagar	Yes	No	3690	553500
21	4	Patrakar Colony Garden	Narmada Nagar	Yes	No	2871.148	430672.2
22	4	Kududand Patrakar Colony	Kududand	No	No	1193.3952	179009.28
23	5	Parijat Colony	Narmada Nagar	Yes	Yes	3054.336	458150.4
24	5	Parijat Shila	Kasturba Nagar	Yes	Yes	2624	393600
25	5	Sai mauli mandir	Narmada Nagar	Yes	Yes	2183.824	327573.6
26	7	Titli Garden	Rajendra Nagar	Yes	No	1337.7152	200657.28
27	7	Konher Garden	Tilak Nagar	Yes	Yes	6169.68	925452
28	9	Mesars Garesh Construction	Narmada Nagar, Gaurav Path	No	No	874.2512	131137.68
29	10	Nehru Bal Udyan	Rajendra Nagar	Yes	No	3372.1024	505815.36
30	11	Nagar Nigam Colony	Gayatri Nagar	Yes	Yes	29603.9352	4440590.28
31	11	Durga Mandir	Priyadarsini nagar	Yes	Yes	10352.664	1552899.6
32	11	Shiv mandir	Agyey Nagar	Yes	Yes	10484.7168	1572707.52
33	11	Green Park - I	Gayatri Nagar	Yes	Yes	2299.608	344941.2
34	11	Green Park - II	Infront of Diwakar House	Yes	Yes	1497.976	224696.4
35	11	Dindayal Garden	Vyapar Vihar	Yes	Yes	26547.3688	3982105.32
36	11	Samta Colony	Gayatri Nagar	Yes	Yes	2959.872	443980.8

Sr. No.	Ward No.	Name of the Garden	Locality	Boundary Yes/No	Playing Equipment Yes/No	Total Area in Sqft	Cost in Rs. Crs. Assuming 150 per Sqft.
37	14	Nagdaune Garden	Vyapar Vihar	Yes	No	2958.56	443784
38	16	Mesars Mens Construction	Agrasen Chowk	No	No	247.476	37121.4
39	17	Saraswati Park	Near Shrikant Varma Marg	Yes	No	2636.3328	395449.92
40	17	Hanuman mandir	Kanti Nagar	Yes	Yes	9572.6472	1435897.08
41	17	Bank Colony	Vinoba Nagar	Yes	Yes	5318.1264	797718.96
42	17	Shes Colony	Vinoba Nagar	Yes	Yes	6912.272	1036840.8
43	17	L7	Vinoba Nagar	Yes	Yes	2209.1456	331371.84
44	17	Durga Pandal	Vinoba Nagar	Yes	Yes	3825.136	573770.4
45	17	Vibha Singh	Vinoba Nagar	Yes	No	2038.192	305728.8
46	17	Saumitra Vihar	Vinoba Nagar	Yes	Yes	1594.08	239112
47	17	Mitra Vihar	Vinoba Nagar	Yes	Yes	2755.2	413280
48	17	Sri Sanjay V. Bhivgarhe	Vinoba Nagar	No	No	1462.88	219432
49	17	Sri Sanjay V. Bhivgarhe	Vinoba Nagar	No	No	1268.0808	190212.12
50	18	Sahgal Galli	Vinoba Nagar	Yes	No	2531.2416	379686.24
51	18	Shiv Mandir	Vinoba Nagar	Yes	Yes	9541.6512	1431247.68
52	24	Vivekanand Garden	Tilak Nagar	Yes	Yes	50603.84	7590576
53	24	Prakash Agrawal	Saraswati Nagar	No	No	1950.9112	292636.68
54	28	Nirala Nagar Garden	Old Bus Stand	Yes	No	1411.8432	211776.48
55	28	Pabhudaya Khandelwal	Link Road	No	No	799.5656	119934.84
56	31	Matru Garden	Near Gandhi Chowk	Yes	Yes	1243.4152	186512.28
57	34	Bilaspur Infrastructure Pvt. Ltd.	Shiv Talkies, Near Citi Centre	No	No	2734.3392	410150.88
58	40	Alisa Builders, Prof. Nashim Khan	Torwa	No	No	1038.5464	155781.96
59	41	Shaiyad Akbar Bakshi	Torwa	No	No	1415.6152	212342.28
60	41	Rupnarayan	Torwa	No	No	3186.7168	478007.52
61	41	Hemunagar Garden	Hemunagar	Yes	No	424758.032	63713704.8
62	42	Shaiyad Akbar Bakshi	Torwa	No	No	2113.4024	317010.36
63	42	Kalpana Vihar	Hemunagar	Yes	Yes	6642	996300
64	42	Sai Park	Hemunagar	Yes	Yes	4706.8	706020
65	42	Murrabhatha	Hemunagar	Yes	Yes	918.4	137760
66	42	Subhas Park	Hemunagar	Yes	Yes	3699.84	554976
67	42	Paramhansh Garden	Hemunagar	Yes	No	1679.36	251904
68	42	K. Nagmani	Hemunagar	No	No	2430.1192	364517.88
69	45	Pragati Vihar	Sarkanda	No	No	3060.568	459085.2
70	47	Sk. Bilders and Developers	Near Palm Enclave	Yes	No	792.5464	118881.96
71	47	Kalpana Natural Forest	Near Palm Enclave	No	No	3153.4904	473023.56
72	48	Behind Science Collage	Near Palm Enclave	No	No	4441.12	666168
73	48	SECL Office	Near Palm Enclave	No	No	7170.08	1075512

Sr. No.	Ward No.	Name of the Garden	Locality	Boundary Yes/No	Playing Equipment Yes/No	Total Area in Sqft	Cost in Rs. Crs. Assuming 150 per Sqft.
74	48	Chatidih Garden	Sarkanda	No	No	2438.68	365802
75	48	IHSDP Rekando (Kh. NO. 532/3)	Chingrajpara	No	No	1260.176	189026.4
76	49	Chatidih Vijayapuram	Sarkanda	No	No	23619.3456	3542901.84
77	49	Akriti Construction	Sarkanda	No	No	876.3832	131457.48
78	49	Kamla Dinesh Gupta	Sarkanda	No	No	798.68	119802
79	49	Sk. Bilders and Developers	Near Palm Enclave	No	No	1540.9112	231136.68
80	49	Sk. Bilders and Developers	Near Palm Enclave	No	No	7163.2576	1074488.64
81	49	Vijayapuram	Sarkanda	No	No	6208.5152	931277.28
82	50	Shakuntalam Heights	Sarkanda	No	No	3559.5216	533928.24
83	50	Star Real Builders Pvt. Ltd.	Sarkanda	No	No	1603.1	240465
84	50	Jay Brothers	Sarkanda	No	No	2069.8112	310471.68
85	51	Chatidih Garden	Sarkanda	No	No	6539.992	980998.8
86	52	Akanksha Builders	Sarkanda	No	No	3738.7408	560811.12
87	52	Vinay Pande	Sarkanda	No	No	5526.6032	828990.48
88	54	Chowbey Colony	Sarkanda	Yes	No	2902.8	435420
89	54	Valmiki Garden	Sarkanda	No	No	4092.784	613917.6
90	56	Nutan Colony - I	Sarkanda	No	No	3053.7456	458061.84
91	56	Nutan Colony - II	Sarkanda	No	No	328	49200
92	56	Sarkanda Garden	Sarkanda	No	No	2162.504	324375.6
93	57	Guru Vihar	Sarkanda	Yes	No	1771.0688	265660.32
94	58	Parvati Associates	Sarkanda	No	No	792.5464	118881.96
95	59	Suresh Kumar Gurwani Project	Sarkanda	No	No	1357.7232	203658.48
96	59	Rohit Khoriya	Sarkanda	No	No	955.9232	143388.48
97	59	Rohit Khoriya	Sarkanda	No	No	876.088	131413.2
98	BDA	Smriti Van	Rajkishore Nagar	Yes	Yes	370226.72	55534008
99	BDA	Energy Park	Rajkishore Nagar	Yes	Yes	172629.68	25894452
100	BDA	Narayanan Garden	Rajkishore Nagar	Yes	No	0	0
101	BDA	Post Office Garden	Rajkishore Nagar	No	No	8200	1230000
102	BDA	Mahila Durga Pandal	Rajkishore Nagar	No	No	6068	910200
103	BDA	Infront of Complx phase-II	Rajkishore Nagar	Yes	No	36080	5412000
104	BDA	Infront of Harshringar	Rajkishore Nagar	No	No	11480	1722000
105	BDA	Infront of Community Hall, Harshringar	Rajkishore Nagar	No	No	6724	1008600
106	BDA	Place Office Hanuman Mandir	Rajkishore Nagar	Yes	No	2558.4	383760
107	BDA	Infront of Tulsi Awas (3/10)	Rajkishore Nagar	No	No	4054.08	608112
108	BDA	Infront of Tulsi Awas (3/65)	Rajkishore Nagar	No	No	3608	541200
109	BDA	Infront of Tulsi Awas (2/36)	Rajkishore Nagar	No	No	1640	246000
110	BDA	Infront of Tulsi Awas (2/01)	Rajkishore Nagar	No	No	1312	196800
111	BDA	Infront of Tulsi Block	Rajkishore Nagar	No	No	3936	590400



Sr. No.	Ward No.	Name of the Garden	Locality	Boundary Yes/No	Playing Equipment Yes/No	Total Area in Sqft	Cost in Rs. Crs. Assuming 150 per Sqft.
112	BDA	Behind of Tulsi 4 Block (4/41)	Rajkishore Nagar	No	No	1312	196800
113	BDA	Behind of Tulsi 5 Block	Rajkishore Nagar	No	No	2056.56	308484
114	BDA	Behind of Tulsi 4 Block (4/01)	Rajkishore Nagar	No	No	984	147600
115	BDA	Phase-I	Rajkishore Nagar	No	No	4264	639600
116	BDA	Infront of Tulsi 6 Block (6/01)	Rajkishore Nagar	No	No	1312	196800
117	BDA	Infront of Tulsi 6 Block (6/15)	Rajkishore Nagar	No	No	1312	196800
118	BDA	Infront of Tulsi Awas (6/70)	Rajkishore Nagar	No	No	5759.68	863952
119	BDA	Infront of Tulsi Awas (6/104)	Rajkishore Nagar	No	No	1312	196800
120	BDA	Infront of Tulsi Awas (6/75)	Rajkishore Nagar	No	No	1312	196800
121	BDA	Infront of Pani Tanki	Rajkishore Nagar	No	No	25354.4	3803160
122	BDA	Infront of Holi Nursury School	Rajkishore Nagar	Yes	No	3936	590400
123	BDA	Plot No. 65 to 85	Rajkishore Nagar	No	No	2558.4	383760
124	BDA	Plot No. 25	Rajkishore Nagar	No	No	3280	492000
125	BDA	Plot No. 48	Rajkishore Nagar	No	No	3280	492000
126	BDA	Plot No. 208	Rajkishore Nagar	No	No	2263.2	339480
127	BDA	Plot No. 108	Rajkishore Nagar	No	No	2296	344400
128	BDA	At Behind Maszid Plot No. 403	Rajkishore Nagar	No	No	2033.6	305040
129	BDA	At Behind Maszid Plot No. 375	Rajkishore Nagar	No	No	2952	442800
130	BDA	Plot No. 238	Rajkishore Nagar	No	No	1968	295200
131	BDA	Plot No. 165	Rajkishore Nagar	No	No	1312	196800
132	BDA	Plot No. 110	Rajkishore Nagar	No	No	328	49200
133	BDA	Plot No. 130	Rajkishore Nagar	No	No	3280	492000
134	BDA	Infront of Chandan Awas (1/77)	Rajkishore Nagar	No	No	2558.4	383760
135	BDA	Infront of Chandan Awas (1/90)	Rajkishore Nagar	No	No	1968	295200
136	BDA	Chandan Block 2	Rajkishore Nagar	No	No	2624	393600
137	BDA	Infront of Chandan Awas (3/10)	Rajkishore Nagar	Yes	No	4428	664200
138	BDA	Infront of Chandan Awas (4/10)	Rajkishore Nagar	No	No	3673.6	551040
139	BDA	Infront of Chandan Awas (5/25)	Rajkishore Nagar	No	No	2624	393600
140	BDA	Infront of Chandan Awas (5/01)	Rajkishore Nagar	No	No	1968	295200
141	BDA	Infront of Makhanlal Awas	Rajkishore Nagar	No	No	3280	492000
142	IHSDP	IHSDP Sakri (Kh.No. 772, 864, 938, 939)	Sakri	No	No	2528.88	379332
143	IHSDP	IHSDP Birkona (Govt. Land 57/1, 57/2) 4 Park	Birkona	No	No	8839.6	1325940

Sr. No.	Ward No.	Name of the Garden	Locality	Boundary Yes/No	Playing Equipment Yes/No	Total Area in Sqft	Cost in Rs. Crs. Assuming 150 per Sqft.
144	IHSDP	Birkona Krishna Vihar Park	Birkona	No	No	4965.92	744888
145	IHSDP	IHSDP Khamtarai-Big (559/1, 562/2, 559/1, 561/1))	Khamtarai	No	No	68246.96	10237044
146	IHSDP	IHSDP Bahatarai Near Earth Quake center	Bahatarai	No	No	16465.6	2469840
147	IHSDP	IHSDP Harshringar	Rajkishore Nagar	No	No	5904	885600
148	IHSDP	IHSDP Bahatarai (Kh.No. 260/1)	Bahatarai	No	No	4100	615000
149	IHSDP	IHSDP Bahatarai Deendayal Awas (Kh.No. 329)	Bahatarai	No	No	2492.8	373920
<b>Total</b>						<b>1666541.662</b>	<b>249981249.2</b>

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

Sr. no	ward no.	Name of Garden	Locality	Boundary	Playing equipments (YES/N0)	Total Area in Sqft
<b>as per Annex 1</b>						
<b>Total</b>						