

List of Projects as per Smart City Proposal : Varanasi

SI No.	Projects in SCP	Cost (Rs. in Crore)
	ABD	
	Assured electricity supply with at least 10% of the Smart City's energy requirement coming from solar	
1	Underground wiring to reduce to remove unwanted clutter on the streets through and implementation of smart metering (IPDS)	431.96
2	Installation of rooftop Solar Panels in Govt. Buildings (Stadium, Station, etc.) Schools, Public & Private Institutions and Private buildings.	50.00
3	Strengthening of Grid (Smart Grid)	20.00
4	Floating Solar Panel in 5 ponds	2.50
5	Adequate water supply including waste water recycling and storm water reuse	0.00
6	Augmentation of existing Water Supply system including smart metering in ABD areas	40.00
7	Smart Sewerage System - SCADA System implementation	123.00
8	Water Atms under NMCG	0.50
9	Water Atms under SBM	0.40
10	Water ATM under CSR	0.06
11	Sanitation including solid waste management	0.00
12	Waste management, Collection, Segregation being done by ILFS in (14+9) wards	26.64
13	Public Conveniences: e-Toilets	18.45
14	IEC and Behavioral change communication	0.09
15	Provision of dustbins at Ghats	0.50
16	Provision of dustbins for 10000 Street vendors	0.50
17	Solid Waste Management through organic compost converter	0.60
18	Solid Waste Management through Bioneers	1.80
19	Decentralized Waste Management (processing) 5 plants in ABD area	15.00
20	Bio Digester Toilets	1.50
21	Other CSR initiatives (HPLC, AAI, BHEL, Reliance Jio, Scindhia Trust etc.)in terms of Solid Waste Management, Construction of toilets, development of parks	50.00
	Rain water harvesting	
22	Making rain water harvesting mandatory for all government buildings and for all new private construction. In ABD area to be made mandatory for all buildings through regulation.	0.00
23	Community level sumps for community consumption e.g. watering gardens, recharge wells	0.00
	Smart Metering (Covered under A1)	
24	Wi-Fi HUBs in all Public Places, Schools, Public and private Institutes & Govt. Offices and identified locations across ABD by leveraging OFC	8.20
	Pedestrian Friendly Pathways including differently-abled design	
25	Barrier free Divyang friendly Footpath integrated with new street section design- (i) Maidagin to Godowlia Chowk to Dashashwamedh Ghat- 2500 mtr (ii) Harish Chandra Junction Hanuman Ghat- 300 mtr (iii) Sonepura Road to Shivala Ghat -250 mtr (iv) Pt. Malvia Nagar to Tusli Ghat- 200 mtr	5.00
	Encouragement to non-motorized transport (e.g. walking and cycling)	
26	Development of cycle track connecting 1 stadium and Gaudaulia to Gaudaulia via Durga kund with 10 KM dedicated cycle track within street section design integrated with Rent-a-cycle stations.	2.00
	Non-vehicle streets/zones	
27	5 KM of streets have been made only walking street with only NMT allowed- Gaudaulia to Assi Ghat (Policy level intervention)	0.00
	Energy Efficient Street lighting	
28	Heritage Street Light in ABD area by EESL-8000	26.80
	Innovative use of open Space Visible improvement in the Area (Landscaping and Urban Design) (i) Children Play area and Open Gyms (ii) Landscaping and Musical Fountains (iii) Cycle Tracks in Park (iv) Wifi Hotspots (v) Fairs & Festivals at Town hall	
29	Landscaping and development of 4 parks (Sahid Udyan, Machodri Park, Anand Park, Bhartendu Park) by Reliance Jio	1.00
30	Landscaping and development of 3 parks 1- Chandrika Nagar Colony Park, Sigra, 2- Ratnakar Park , Shivala Park 3- Tilbhandeshwar Park, Bhelupur	1.25
31	Landscaping and development of parks	4.00

SI No.	Projects in SCP	Cost (Rs. in Crore)
	Visible improvements in the area	
32	Development of pedestrianisation in the heritage precinct of old city of Varanasi from Maidagin to Godowlia Chowk to Dashashwamedh Ghat, façade improvement - 2 KM	4.00
33	Heritage lighting and development of Kabir Chourah	1.00
34	Façade Improvements and Restoration of Important Landmarks at Ghats	1.00
35	Road development from Durga Kund to Assi Ghat	0.75
36	Paving in DURGA KUND and SANKATMOCHAN	0.50
37	Signage in DURGA KUND and SANKATMOCHAN	0.09
38	Use buildings to paint history of Kashi	3.00
	Safety of citizens especially children, women and elderly	
39	Fire Fighting Bikes	0.15
40	Fire Fighting SUV	0.60
41	HAZMAT Van	6.00
	At least 80% of buildings (in redevelopment and green-field) should be energy efficient and green buildings	
42	Digital Signage	0.84
43	Interactive Information Kiosks	1.44
44	Culture cum Spiritual Convention Centre- International center for Art Gallery, Museum, IMAX Theatre, 1000 seater Auditorium, Music, Yoga & Spiritual Hall	211.00
45	Rejuvenation of Sports Stadium - Creation of sports facilities on PPP mode	58.00
46	Creation of Kashi Kara Dharm (Centre of excellence) with - Hall of Fame - Music Gharanas teachings - Jyotish Vidya teachings - Guru Aashram - 500 seater auditorium (Sanaskritic Kendra) - Parking facility - Research Centre - Recording Centre	14.00
47	Rejuvenation of Water bodies - Natural purification and real time monitoring of Lake water, Standalone floating solar aerators, Promoting ornamental fish farming in	0.00
48	(v) Mandakini Kund by Reliance Jio	0.40
49	Rejuvenation of Ponds: 8 nos by Govt. of UP	20.00
50	Rejuvenation of Ponds: 2 nos by Govt. of UP	0.80
	Rejuvenation of Ghats	
51	Development of new toilets	0.50
52	Up gradation of existing toilet	2.50
53	Development of Changing rooms at Ghats (Solar Powered Roofs)	0.80
54	Illumination of Ghats	10.08
55	Repair of steps	1.50
56	Signage and paving of streets leading to Ghats	2.00
57	Jetty development for mooring and charging of battery of boats, Filter cooler, 60 Chatri, 60 stone slab, signage , dustbin,72 RCC bench, Urinal, changing Room	3.65
58	Creation of Pathways connecting Ghats (Physically disabled friendly)	1.00
59	Creation of separate areas for Ganga Snanam / Puja / boating	0.10
60	Ghat Improvement under JICA	1.47
61	Construction of Dhobi Ghat (6 New + 3 renovations)	5.37
62	Development of Music school and performance centre at Rewa Kothi	1.00
63	Rejuvenation of Ghats under CSR by ONGC	12.00
64	Rejuvenation of Ghats under CSR by CCL	110.00
65	Waterways Improvement for activates such as water sports, sunset/sunrise visits, Floating markets	10.00
66	Ferry Water connectivity of Ghats	4.00
67	Battery powered Cruise boat	3.00
68	Ambulance and Emergency Operation Centre	0.50
69	Boat taxi (solar powered)	1.40
70	Development of Town Hall as heritage center for visitors and pilgrims including Cleaning, repair, up gradation of the main building, site development, landscaping. Development of Sanskrit Haat (make shift shops) for Cultural events and Fairs, Local handicrafts, Local cuisine	4.00
71	Reuse of Town hall for Museum and Ramleela performance centre	8.00
72	Renovation of Man Singh Observatory	5.00
73	battery operated carts for food and craft stalls	0.40

SI No.	Projects in SCP	Cost (Rs. in Crore)
74	Rejuvenation of temple area. (i) Queue Management at Vishawanath (ii) Lane Improvement (paving, dustbins, digital display for people standing in queue - video streaming of aatri, bhajan etc.) for Till Bhandeshwar & Vishwanth Mandir (iv) Linking of temples with e rickshaws and e boats rides- Kashi Parikrama Routes & Sanskritic Lehar (Hriday)	1.00
75	Organic waste Composter for temple waste for Vishwanth Mandir, Sankat Mochan, Kaalbharav	0.45
76	Upgradation and Development of Ganga Museum at Manmandir	2.00
77	Night Bazar at Assi Ghat and Ravidas Park	0.00
78	Light and Sound Show (watching by boats, bookings by online APP) at Assi Ghat	0.40
79	Light and Sound Show at Ravi Das Park	1.50
80	Inter Modal Hubs - including Footpath for pedestrians, Feeder Buses and Bicycles at 26 metro stations	100.00
81	Smart bus stops on pilot basis - 50 nos.	7.50
Social Inclusion		
82	Association of elderly people in music schools and Yoga kendra (POLICY LEVEL)	0.00
83	Skill development for Street Vendors for Sanitation and Hygiene	0.09
84	I. Skill Development of the artisans under Baba Saheb Hastisilp Vikas Yojana (Central Govt. Scheme) II. State Government skill promotion initiatives III. Trade development centres for artisans IV. Linkages with the bank for credit cards and life insurance V. Skill development for Widows	1.00
85	Vocational Training for Street Vendors under Street Vendors Act 2014	5.00
86	Entrepreneur skill development for Street Vendor under Street Vendors Act 2014	5.00
87	Voice Guided Heritage Tours	0.20
88	20 Electric buses with battery infrastructure	6.00
89	e-Auto(Solar powered)	0.20
90	Amphibious for Sanskrtic Lehar	1.00
91	Amphibious for Kashi Parikarma	10.00
92	LED Panel for audio/video information dissemination under CSR	10.00
93	Repair and development of 34 roads with Heritage Development and Theme Enhancement in ABD area	31.51
94	Repair of roads (130 KM) in Pan City by PWD	20.00
95	Weavers Skill Development and Trade Facilitation Centre	50.00
96	Weavers Museum	20.00
97	Skill Development Centre for Widows	2.00
98	Skill Development Centre for Transgender	2.00
99	Culture Competition and Festival for Music, Singing, Weavers, Swimming, Boat Race etc.	5.00
100	Redevelopment of Manikarnika Ghat	6.00
101	Redevelopment of Harishchadra Ghat- Electric crematorium	4.00
102	Jal Sav Vahini- Varanasi Vikas Samiti	0.50
103	Waste processing plant by IOC	10.00
104	Capacity Building Under JICA	32.00
105	Affordable Housing	62.84
Pan City		
Intelligent Traffic Management		
106	IT tools for traffic management, enforcement and surveillance at 64 intersections identified by the traffic police department. These tools include Smart Traffic Signals	55.30
107	Automatic number plate recognition system, Red-light violation detection system, E-Challan	14.04
108	Variable Message Signs, CCTV surveillance, Video Analytics etc. Controlled from a Central Control Center	2.82
Smart Parking		
109	Development of smart parking at 8 locations integrated with charge stations and NMT parking in -3 level. The parking is also integrated with smart card and mobile app. Parking to be developed for multi use commercial activities.	200.00
110	Development of smart parking at 3 locations integrated with charge stations and NMT parking in -3 level. The parking is also integrated with smart card and mobile app. Parking to be developed for multi use commercial activities.	75.00

SI No.	Projects in SCP	Cost (Rs. in Crore)
	Energy Efficient Street lighting	
111	Energy Efficient Street lighting at City level- 36000	94.80
112	Smart Street lights integrated with Wi-Fi, Panic / Emergency Buttons, CCTV & Video Analytics Digital Signage, Air Quality Monitoring, Consumption analytics, management	8.00
	Innovative use of open Space Visible improvement in the Area (Landscaping and Urban Design)	
113	Common Smart Kashi Signage shop boards	5.00
	Safety of citizens especially children, women and elderly	
114	(CCTV Surveillance under ITMS (Covered under ITMS)	0.00
115	Augmentation of Womenhelp line	0.30
116	Development of All Women- Police Station (Policy of intervention)	0.00
117	Development of Elderly Helpline	0.50
	Additional 'smart' applications, covering all the essential features	
118	Kashi Card Integrated Smart City Card (for locals and visitors) – multi-utility card (Same as A)	0.00
119	Kashi App - Integrated Smart City App (for citizens and visitors) with E-darshan platform including - e-booking for morning Aarti Vishwanath temple - e-Booking for Gnaga Aarti - e-booking of Prasadam - Online channel for Live streaming of Aarti/Puja - E-Booking of affiliated Dharmshala and hotels	1.00
120	e-Governance Services for select departments under e-District Platform	5.00
121	Smart Environment Monitoring- water Quality, Air quality and Early warning sensors	1.00
122	City wide LPWAN Sensor Network	1.00
	Common Platforms	
123	Utility Dashboards- Common Dashboard (Power, Water, Gas etc) Usage, Leaks, Billing Reporting	0.75
124	Digital Wallet - Kashi Card Platform integrated with PayGov of Gol	0.80
125	Citizens Engagement Platform (App)	0.50
126	Digital Signage Platform (Events, Info, Schedules, Storytelling of History, Significance	0.40
127	Interactive Kiosks Platform	0.40
128	Share / Rent / Book Vehicles (E-Rickshaws, e-Boats. Rent-a-Cycle)	0.50
129	City Operational Command Center : Integrated Command & Control Center: Power, Water, Transport Traffic/Parking, Waste, Crowd, Environmental, Emergency Response, Disaster Management etc	10.00
	Robust IT connectivity and digitalization	
130	Citywide OFC infrastructure through PPP with open access protocol, access charge, revenue share based agreement	40.00
131	Digitization and implementation of e-office in Nagar Nigam and SPV	10.00
132	Implementation of Bio-metric Attendance System in Nagar Nigam and SPV	1.00

Note- This only indicates cost of individual projects given in the SCP. The total value of SCP may additionally include other costs such as DPR preparation, PMC, O&M etc.