

Green Spaces and Parks

CITY NAME: **AGRA**

1. Assess the Service Level Gap

First and foremost aspect of SLIP is to assess the existing situation and service levels gaps for organised 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 organised 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 organised green space in your city make a sincere effort to analyse the proportion of area under the categorization of parks as per URDPFI Guidelines eg: Housing Area Park (HAP), Neighbourhood 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).

Question: What are the available data sources/plans/reports/schemes that exists as regards development and maintenance of parks?

Answer: Master plan, CDP, DPR for improvement and beautiful of exiting Parks under JNNURM, Environmental management plan prepared under TTZ by NEERI and Municipal Corporation self-survey.

Question: Review the recommendation on open/ green space as per Master Plan/ Development Plan and map existing green cover against the same. Identify the areas where there is deficiency of open/green space.

Answer: Old city area has deficiency of green space/parks (Rawat Para, Fawwara, Dhulia ganj Kinari bazar, Kachehari Ghat, Gudri Mansoor Khan)

Question: Does the ULB follow URDPFI Guidelines to categorize its organised 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?

Answer: Categorization of parks is followed by guidelines of U.P. parks, playground and open space (preservation) act- 1975.

Question: What is the per person open space availability in the city in general and within built-up areas?

Answer: Open space availability in 2015 was 2.13sqm per person. In 2015-17 increment in Open Spaces and parks development is about 0.56 sq.m (Census 2011).

S.No	Indicators	2015	2017	Benchmark	Source	Reliability Factor
1.	Per capita Green space available in built up areas	2.69 sq.m	2.70 sq.m	3 sq.m as per NBC/URDPFI Guidelines	Parks under ULB & ADA, Horticulture, Social Forestry, Private Owners	Intermediate: B
2.	Open space availability per person.		Data Awaited	10-12 sq.m as per URDPFI Guidelines	Master Plan/ Development Plan (Recreational, Organised green/parks, common open vacant/play fields, flood plains, forest)	Intermediate: B

Source: URDPFI – 2014 & Analysis of ULB Level Data

Question: 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)

Answer: Yes, Agra Municipal Corporation has prepared park wise inventory of each park in which length, width, area and present status of parks has been mentioned. Smart City Area-ABD Convergence has also been considered for the same.

Question: 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)

Answer: Majority no of parks have boundary walls and pathways. Few parks even do not have boundaries. Maximum no of parks are lacking in play areas, park furniture, benches, garden tables, public conveniences, semi pucca huts, landscaped and manicured areas. The physical condition of parks in the city is very poor.

2015-16 PARKS APPROVED BY SLTC/SHPSCName of Park: SoorvatikaName of Ward: Awaz VikasCategory of Park: Community ParkArea of Park (In sq.m): 18000 sq.m

S.No	Elements	Sub-Elements	Assessment Parameter	2015	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	50,000	50,000
			Condition	Average	Good
			Flatness	Completely Flat	Completely Flat
			Proximity to Water Areas	No	No
2	Paved Pathways	Existence and Surface	Existence	Yes damaged	Pathways have been repaired
			Condition	Damaged	Good Condition
			Width	1.5 m	2.4m (major axis) and 1.8m (inner)
			Flatness	Completely Flat	
			Obstruction	No	
			Shaded Area	No	
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	Yes, small pond is available but damaged and not in use.	Repair works done for construction of fountain. (Work in progress)
			Water Quality	NA	NA
			Movement	Yes	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	Yes	Yes
			Supply Source	2 submersible available. (1- Not working)	3 new submersible have been installed
			Availability of Eating Features	3 Kiosks are available.	3 Kiosks are available.
			Condition	Good	Good
			Flatness	Completely Flat	Completely Flat
			Openness	3 sides open	3 sides open
			Visibility	Easily Visible	Easily Visible

5	Facilities	Metallic Fence/ Boundary Wall, Theme based Entry Gate, Recreation Centre Shelters/Pavilions/Enter tainment 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 utilization of water),	Boundary Type	Pucca, average condition	Good Condition
			Boundary Wall	B/W	B/W
			Number of Entry Gates	2	2
			Material of Entry Gates	Mild Steel Gate	Mild Steel Gate
			Recreation Centre/Amphitheatre /Stage	Yes	Yes
			If Yes, Condition	damaged open air theatre	Open Air Theatre has been repaired
			No of Illumination Point(All)	No	No
			Whether Solar Illumination being used	No	No
			No of Illumination Point(Solar)	No	No
			Parking Space	Available	Available
			Public Convenience (Men)	Yes, in very bad condition	Repair works done.
			Public Convenience (Women)	Yes, in very bad condition	Repair works done.
			Availability of Dustbins	Yes	Yes
			No of Dustbins	3	3
			Availability of Compost Beds	No	No
			Availability of Rains Water Harvesting Facility	No	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	Yes	Yes
			No of Benches	10	10
			Availability of Picnic Tables	No	No

			No of Picnic Tables		
			Availability of Semi Pucca Huts	No	No
			No of Semi Pucca Huts		
			Whether Huts are Illumination		
			Whether Solar Panel Used for Illumination		
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No	No
			Color		
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	3 side open. 1 slide and 2 see- saw	3 side open. 1 slide and 2 see- saw
			Visibility	Easily Visible	Easily Visible
			Shaded Area	No	No
			Condition	Good	Good
			Levelness	Easy accessibility for children	Easy accessibility for children
			Colorfulness	Yes	Yes
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	No	No
			Badminton Court	No	No
			Kabaddi Area	No	No
			Condition	Average	Average
			Drainage	Available but in poor condition	Available but in poor condition

Name of Park: Balkeshwar ParkName of Ward (In sq.m.): BalkeshwarCategory of Park: Community ParkArea of Park (In sq.m.): 13200

S.No	Elements	Sub-Elements	Assessment Parameter	2015	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	10,000	10,000
			Condition	Average	Average
			Flatness	Completely Flat	Completely Flat
			Proximity to Water Areas	No	No
2	Paved Pathways	Existence and Surface	Existence	Damaged	New Pathway has been made
			Condition	Average	Good
			Width	2.00 m	2.4 m (major axis) and 1.8 m (minor axis)
			Flatness	Highly Undulating	Highly Undulating
			Obstruction	No	No
			Shaded Area	No	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No	No
			Water Quality	N.A.	N.A.
			Movement	Yes	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No	No
			Supply Source	2 Under-ground Water-Submersible available (1 in working condition)	2 new Submersible have been installed
			Availability of Eating Features	No	No
			Condition		
			Flatness		
			Openness		
			Visibility		

5	Facilities	Metallic Fence/ Boundary Wall, Theme based Entry Gate, Recreation Centre Shelters/ Pavilions/Entertainme nt 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 utilization of water),	Boundary Type	B/W damaged boundary	Boundary wall has been repaired
			Boundary Wall		
			Number of Entry Gates	3	3
			Material of Entry Gates	M.S	Gates are being repaired where ever required
			Recreation Centre/Amphitheatre/Sta ge	Yes	Yes
			If Yes, Condition	but in very bad condition	Stage has been reconstructe d
			No of Illumination Point(All)	4 points available.3 points are in working condition.	4 points available.3 points are in working condition.
			Whether Solar Illumination being used	No	No
			No of Illumination Point(Solar)	None	None
			Parking Space	Not Available	Not Available
			Public Convenience (Men)	Yes, in very bad condition	New Toilets are under construction .
			Public Convenience (Women)	No	New Toilets are under construction .
			Availability of Dustbins	Yes	Yes
			No of Dustbins	1	1
			Availability of Compost Beds	No	No
			Availability of Rains Water Harvesting Facility	No	No

6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	Yes, in damaged condition	Yes, in damaged condition
			No of Benches	4	4
			Availability of Picnic Tables	No	No
			No of Picnic Tables		
			Availability of Semi Pucca Huts	Yes	Yes
			No of Semi Pucca Huts	2 tin shaded available	2 tin shaded available
			Whether Huts are Illumination	No	No
			Whether Solar Panel Used for Illumination	No	No
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No	No
			Color		
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	3 side open. 1 slide and 1see saw available in damaged condition.	3 side open. 1 slide and 1see saw available in damaged condition.
			Visibility	Easily Visible	Easily Visible
			Shaded Area	No	No
			Condition	Very poor	Very poor
			Levelness	Easy accessibility for children	Easy accessibility for children
			Colorfulness	No	No
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	No	No
			Badminton Court	No	No
			Kabaddi Area	No	No

			Condition	Bad	Bad
			Drainage	No	Work in progress

Name of Park: Ramleela ParkName of Ward (In sq.m.): Jaipur HouseCategory of Park: Neighborhood ParkArea of Park (In sq.m.): 8256.96

S.No.	Elements	Sub-Elements	Assessment Parameter	2015	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	50,000	50,000
			Condition	Average	Average
			Flatness	Completely Flat	Completely Flat
			Proximity to Water Areas	No	No
2	Paved Pathways	Existence and Surface	Existence	Yes Damaged	Yes Damaged
			Condition	Damaged	Damaged
			Width	1.5 m	1.5 m
			Flatness	Completely Flat	Completely Flat
			Obstruction	No	No
			Shaded Area	No	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No	No
			Water Quality	N.A	N.A
			Movement	Yes	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors local snacks, ice cream kiosks.	Availability of Drinking features	Yes	Yes
			Supply Source	2 Under-ground Submersible Pump available	2 Under-ground Submersible Pump available
			Availability of Eating Features	No	No
			Condition		
			Flatness		
			Openness		
			Visibility		

5	Facilities	Metallic Fence/ Boundary Wall, Theme based Entry Gate, Recreation Centre Shelters/ Pavilions/Entertainme nt 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 utilization of water),	Boundary Type	Pucca but in damaged condition	Pucca but in damaged condition
			Boundary Wall	B/W	B/W
			Number of Entry Gates	2	2
			Material of Entry Gates	Iron Gates	Iron Gates
			Recreation Centre/Amphitheatre/Stage	No	No
			If Yes, Condition		
			No of Illumination Point(All)	4 points available.	4 points available.
			Whether Solar Illumination being used	No	No
			No of Illumination Point(Solar)	No	No
			Parking Space	No	No
			Public Convenience (Men)	No	No
			Public Convenience (Women)	No	No
			Availability of Dustbins	Yes	Yes
			No of Dustbins	2	2
			Availability of Compost Beds	No	No
			Availability of Rains Water Harvesting Facility	No	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	Yes	Yes
			No of Benches	30	30
			Availability of Picnic Tables	No	No
			No of Picnic Tables		
			Availability of Semi Pucca Huts	No	No

			No of Semi Pucca Huts		
			Whether Huts are Illumination		
			Whether Solar Panel Used for Illumination		
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	yes	yes
			Color	Red and Yellow	Red and Yellow
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	4 Side Open	4 Side Open
			Visibility	Easily Visible	Easily Visible
			Shaded Area	No	No
			Condition	Good	Good
			Levelness	Easy accessibility for children	Easy accessibility for children
			Colorfulness	Yes	Yes
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	No	No
			Badminton Court	No	No
			Kabaddi Area	No	No
			Condition	Average	Average

2016-17 IDENTIFIED PARKS/ APPROVED PARKS**Name of Park: Shaheed Nagar Tanki Wala Park****Name of Ward: Shaheed Nagar****Category of Park: Neighborhood Park****Area of Park (In sq.m.): 10500**

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2000
			Condition	Very bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	Very bad
			Width	
			Flatness	
			Obstruction	Yes, due to tube-well
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	Yes

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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Completely Damaged
			Number of Entry Gates	Not available
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	No
			Availability of Picnic Tables	No
			No of Picnic Tables	No
			Availability of Semi Pucca Huts	No

			No of Semi Pucca Huts	No
			Whether Huts are Illumination	No
			Whether Solar Panel Used for Illumination	No
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	No
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	No
			Visibility	No
			Shaded Area	No
			Condition	No
			Levelness	No
			Colorfulness	No
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	Yes, general play area is available
			Badminton Court	No
			Kabaddi Area	No
			Condition	Very poor
			Drainage	No

Name of Park: Maulana Azad ParkName of Ward: Shaheed NagarCategory of Park: Housing Area ParkArea of Park (In sq.m.): 2056.50

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	1000
			Condition	Good
			Flatness	Yes
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	Yes

			Condition	Good
			Width	1m
			Flatness	Yes
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No
			Water Quality	NA
			Movement	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	Yes
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	Yes
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Good
			Number of Entry Gates	2
			Material of Entry Gates	M.S. Gates
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No

			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	No
			Availability of Picnic Tables	No
			No of Picnic Tables	No
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	No
			Whether Huts are Illumination	No
			Whether Solar Panel Used for Illumination	No
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	Yes
			Color	Yellow and red
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	No
			Visibility	No
			Shaded Area	No
			Condition	No
			Levelness	No
			Colorfulness	No
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	No
			Badminton Court	No
			Kabaddi Area	No
			Condition	No
			Drainage	No

Name of Park: Narottam Kunj ParkName of Ward: Taj Firoz KhanCategory of Park: Housing Area ParkArea of Park (In sq.m.): 780

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2000
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	Bad
			Width	
			Flatness	No
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No
			Water Quality	No
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged

			Number of Entry Gates	1
			Material of Entry Gates	M.S Gate
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	No
			Availability of Picnic Tables	No
			No of Picnic Tables	No
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	No
			Whether Huts are Illumination	No
			Whether Solar Panel Used for Illumination	No
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	No
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	No
			Visibility	No
			Shaded Area	No
			Condition	No

			Levelness	No
			Colorfulness	No
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	No
			Badminton Court	No
			Kabaddi Area	No
			Condition	No
			Drainage	No

Name of Park: Defense Estate ParkName of Ward: Bundu KatraCategory of Park: Housing Area ParkArea of Park (In sq.m.): 1924

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2500
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	Bad
			Width	
			Flatness	No
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	No
			Water Quality	No
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor <input type="checkbox"/> local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No

			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	Not available
			Boundary Wall	Not available
			Number of Entry Gates	0
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No

			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	No
			Availability of Picnic Tables	No
			No of Picnic Tables	No
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	No
			Whether Huts are Illumination	No
			Whether Solar Panel Used for Illumination	No
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	No
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	No
			Visibility	No
			Shaded Area	No
			Condition	No
			Levelness	No
			Colorfulness	No

9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	Yes, general play area is available
			Badminton Court	No
			Kabaddi Area	No
			Condition	No
			Drainage	No

2017-2020 UPCOMING PARK IDENTIFICATION

Name of Park: Pani Tanki Janak Park

Name of Ward: Nagla Mewati

Category of Park: Housing Area Park

Area of Park (In sq.m.): 3533.3

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	3500
			Condition	
			Flatness	
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	Yes
			Condition	Good
			Width	2 m
			Flatness	Uneven
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No

			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Yes
			Number of Entry Gates	2
			Material of Entry Gates	M.S Gate
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	

			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	No
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	Yes
			Visibility	Yes
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	Bad
			Drainage	Yes

Name of Park: Madhav ParkName of Ward: Nagla MewatiCategory of Park: Housing Area ParkArea of Park (In sq.m.): 4480

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	4500
			Condition	
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved	Existence and Surface	Existence	Yes

	Pathways			
			Condition	Good
			Width	2 m
			Flatness	Uneven
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Yes
			Number of Entry Gates	1
			Material of Entry Gates	M.S Gate
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No

			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	No
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	Yes
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	Bad
			Drainage	Yes

Name of Park: Tikona ParkName of Ward: Nagla MewatiCategory of Park: Housing Area ParkArea of Park (In sq.m.): 2272.57

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2000
			Condition	Bad

			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	
			Width	
			Flatness	
			Obstruction	
			Shaded Area	
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost	No

			Beds	
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters – Semi-pucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	
			Badminton Court	No
			Kabaddi Area	
			Condition	
			Drainage	

Name of Park: EWS Taj NagariName of Ward: Nagla MewatiCategory of Park: Housing Area ParkArea of Park (In sq.m.): 1500

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	1500
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	
			Width	
			Flatness	
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No

			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	Yes
			Badminton Court	No

			Kabaddi Area	No
			Condition	Bad
			Drainage	No

Name of Park: Amar Lok Bal Vidya MandirName of Ward: Teli PadaCategory of Park: Housing Area ParkArea of Park (In sq.m.): 1480

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	1500
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	
			Width	
			Flatness	
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	

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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	

7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	Yes
			Badminton Court	
			Kabaddi Area	
			Condition	
			Drainage	

Name of Park: Bhagat Singh ParkName of Ward: Shaheed NagarCategory of Park: Housing Area ParkArea of Park (In sq.m.): 2829

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	3000
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	Yes
			Condition	Damaged
			Width	1.5 m
			Flatness	Uneven

			Obstruction	Tube-well
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No

			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	Bad
			Drainage	No

Name of Park: Bank Colony ParkName of Ward: Shaheed NagarCategory of Park: Housing Area ParkArea of Park (In sq.m.): 2500

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2500
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	
			Width	
			Flatness	
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W

			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters – Semi-pucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	

			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area(kite flying, flying disc, soft ball toss area etc.	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	Bad
			Drainage	No

Name of Park: Model Town Idgah ParkName of Ward: IdgahCategory of Park: Housing Area ParkArea of Park (In sq.m.): 4365

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	10000
			Condition	Bad
			Flatness	Uneven
			Proximity to Water Areas	No
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	
			Width	
			Flatness	
			Obstruction	No
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	Yes
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	

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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	No
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	

7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area(Kite flying, flying disc, soft ball toss area etc.	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	Bad
			Drainage	No

Name of Park: Trans Yamuna A-570Name of Ward: TYC A,B,CCategory of Park: Housing Area ParkArea of Park (In sq.m.): 1952

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	2000
			Condition	Bad
			Flatness	
			Proximity to Water Areas	
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	Bad
			Width	No
			Flatness	
			Obstruction	Temple
			Shaded Area	No

3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendors, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	
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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	1
			Material of Entry Gates	Iron
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	

			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	
7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.)	Yes
			Badminton Court	No
			Kabaddi Area	No
			Condition	
			Drainage	No

Name of Park: Trans Yamuna Phase IIName of Ward: TYC A,B,CCategory of Park: Housing Area ParkArea of Park (In sq.m.): 1862

S.No	Element	Sub-Element	Assessment Parameter	2017
1	General Space	Open/Green space, landscaped area (manicured etc.), and General areas for large Organized social interaction.	Population Catered	5000
			Condition	Bad
			Flatness	
			Proximity to Water Areas	
2	Paved Pathways	Existence and Surface	Existence	No
			Condition	Bad
			Width	No
			Flatness	
			Obstruction	
			Shaded Area	No
3	Water Areas	Water Areas (Shallow Water bodies for children, ponds, streams, fountains)	Average size	
			Water Quality	NA
			Movement	No
4	Eating/Drinking features	Drinking water facilities, picnic areas, vending. Tube-well, Space for Vendor, local snacks, ice cream kiosks.	Availability of Drinking features	No
			Supply Source	No
			Availability of Eating Features	No
			Condition	
			Flatness	
			Openness	
			Visibility	

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 utilization of water),	Boundary Type	B/W
			Boundary Wall	Damaged
			Number of Entry Gates	
			Material of Entry Gates	
			Recreation Centre/Amphitheatre/Stage	No
			If Yes, Condition	No
			No of Illumination Point(All)	No
			Whether Solar Illumination being used	No
			No of Illumination Point(Solar)	No
			Parking Space	No
			Public Convenience (Men)	No
			Public Convenience (Women)	No
			Availability of Dustbins	No
			No of Dustbins	
			Availability of Compost Beds	No
			Availability of Rains Water Harvesting Facility	No
6	Sitting of Resting Features	Benches, Picnic Tables, Seat walls. Picnic shelters - Semipucca/ Pucca Huts, (equipped with energy efficient solar panels & LED lights)	Availability of Benches	No
			No of Benches	
			Availability of Picnic Tables	No
			No of Picnic Tables	
			Availability of Semi Pucca Huts	No
			No of Semi Pucca Huts	
			Whether Huts are Illumination	
			Whether Solar Panel Used for Illumination	

7	Landscaping	1.1 Flowers, shrubs/ bushes, landscaping, manicured garden and compost beds. Play Squares/ Circle integrated with fountains	Variety	No
			Color	
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	
			Shaded Area	No
			Condition	
			Levelness	
			Colorfulness	
9	Play Area (for Adolescent)	Badminton courts, Kabaddi area, kite flying, flying discs, soft ball tossing area etc. Should be safe & secured for children (High tension line/ transformer must be relocated)	General Play Area (kite flying, flying disc, soft ball toss area etc.	
			Badminton Court	No
			Kabaddi Area	No
			Condition	
			Drainage	No

Question: Whether parks have well planned play area encouraging physical activity? Are they equipped with child friendly play equipments, snack/ ice cream parlours/ kiosks etc. (Mention in proportions, if possible?)

Answer: Sur vatika in awas vikas colony has planned play area and snacks & ice cream vendors cum there in the morning and evening. Most of the parks need well planned play areas and they are also not equipped and evening with child friendly play equipments.

Question: 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)

Answer: Paliwal park in the centre of the city is having well aesthetics components with the help of NGOs and local citizens. This parks also has one lake in which children enjoy boating in the evening but other parks need aesthetic components to be developed such as fountain, steel benches, steel railing, proper lighting, greenry, etc.

Question: 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?

Answer: At present AMRUT MISSION is running for development of parks in the city. Some of the open spaces may be developed under SMART CITY MISSION as well.

Question: 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.

Answer: For development of parks/open spaces, following factors are considered by the corporation: 1. They must be in vicinity of the ULB while providing facility to maximum people in the area 2. Parks which are lacking in basic amenities i.e. boundary wall, gate, pathway, water availability, greenery etc. 3. Priority given to areas under AGRA SMART CITY- ABD area. 4. Minimum investment for development.

CRITERIA FOR SHORTLISTING OF PARKS UNDERTAKEN

2015-2016 1. They must be in vicinity of the ULB while providing facility to maximum people in the area 2. Parks which are lacking in basic amenities i.e. boundary wall, gate, pathway, water availability, greenery etc. 3. Minimum investment for development.

2016-2017 1. They must be in vicinity of the ULB while providing facility to maximum people in the area 2. Parks which are lacking in basic amenities i.e. boundary wall, gate, pathway, water availability, greenery etc. 3. Minimum investment for development.

2017-2020 1. They must be in vicinity of the ULB while providing facility to maximum people in the area 2. Parks which are lacking in basic amenities i.e. boundary wall, gate, pathway, water availability, greenery etc. 3. Priority given to areas under AGRA SMART CITY- ABD area. 4. Minimum investment for development.

Question: 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.

Answer: Agra Development Authority, Avas Vikas Parishad, Private Developers develop new parks along with other infrastructure while developing new colonies and once the infrastructure is handed over to Municipal Corporation, then it is maintained by Municipal Corporation. In Year 2017 AGRA SMART CITY Ltd. will also develop open spaces in the ABD area.

Question: Where can new parks be developed in the future; how much space may be available.

Answer: ADA and Avas Vikas Parishad can develop new parks as per provisions done in Master Plan and schemes respectively.

Year 2017-20 (Proposed)						
Sr. No.	Name of Park	Area	Ward	Location	Zone	H.No
1	Pani Tanki Janak Park		Nagla Mewati	Taj Nagri Phase-I	Taj Ganj	
2	Madhav Park		Nagla Mewati	Taj Nagri Phase-I	Taj Ganj	
3	Tikona Park		Nagla Mewati	Taj Nagri Phase-I	Taj Ganj	
4	Taj Nagri Phase-I opp. EWS 144		Nagla Mewati	Taj Nagri Phase-I	Taj Ganj	
5	Amarlok Colony Near Bal Vidya Mandir	Shaheed Nagar	Teli Pada	Bal Vidya Mandir	Taj Ganj	
6	Bhagat Singh Park, Shaheed Nagar		Shaheed Nagar	Bhagat Singh Statue	Taj Ganj	
7	Bank Colony Park, Opp. 22 Isha Niketan		Shaheed Nagar	Near Kaveri Vihar	Taj Ganj	Opp. 22 Isha Niketan
8	Model Town Colony Park, Idgah	Idgah	Idgah	Model Town Colony	Chhatta	
9	Trans Yamuna A-570	TYC	TYC A,B,C	TYC	Chhatta	A-570
10	Trans Yamuna Phase II Block D H.No. 102	TYC	TYC A,B,C	TYC Phase-II Block D	Chhatta	102

Question: As per the DP or Master Plan for new areas how much is allocated

Answer: ADA has earmarked land for parks in Master plan as : 1. For sector park-343.44 hect.2. for Regional parks – 124.00 hect. 3. Zonal Park- 89.87. 4. For Recreational Park-175.00 hect, 5. National Park -143.36 hect. 6. Green Belt- 390.86. 7. Nursury- 30.72. Thus total 1296.98 hect. Land has been earmarked in Master Plan.

Question: Who manages the parks in the city? How much delegation of responsibility has been given to RWAs and/or NGOs?

Answer: ADA, Forestry, Horticulture and ULB manage parks in the city as per their jurisdiction. RWAs take responsibility to manage parks in few colonies as Gandhi Nagar, Kamla Nagar, Vijay Nagar, Surya Nagar and similar other planned and approve colonies.

Question: Which parks get flooded or water logged?

Answer: All parks can be accessed easily. None of them get flooded/water logged.

Question: Does the ULB have any guidelines for providing safe and secure access to parks for children and elders?

Answer: At present Agra Municipal Corporation has no guideline for providing safe and secure access to parks for children and elders.

Question: Is there a system for preventing the entry of animals into parks?

Answer: Developed parks have boundary walls and gates and revolving gates for preventing the entry of animals into parks.

Question: Does the city have any guidelines for horticulture; types of trees and plants, etc?

Answer: At present city does not have any guidelines? Horticulture and forest department may have such guidelines.

Table 2: Jurisdiction wise – Allocation of Green Space and Parks

Sr. No.	Jurisdiction	No. of Parks 2015	No. of Parks 2017	Area of Parks (in sq.m.)	Proportion (in %age)
1	ULB	336	369	964158.00	22.79
2	Development Authority	207	207	577000.00	13.64
3	Horticulture Deptt	05	05	1882395.26	44.50
4	Social Forestry	01	01	750000.00	17.73
5	Private Ownership – Corporate/ NGOs	34	34	56600.00	1.34
	Total	583	616	4230153.26	100

Table 3: Hierarchy of Organised Greens in the City (As per URDPFI-2014)

Sr. No.	Category	No. of Parks	Area Under Category (in sq.m.)	% Area Under Parks/Open Space
1.	Housing Area Park (HAP) (Less than 5,000 sq.m.)	593	1439148.59	34.02
2.	Neighbourhood park (NP)	15	100177.40	2.37

	(5,000-10,000sq.m.)			
3.	Community park (CP) (10,000-50,000 sq.m.)	3	71668.56	1.69
4.	District Park (DP) (50,000-2,50,000 sq.m.)	1	68796.56	1.63
5.	Sub-City Park (SCP) (2,50,000 sq.m. & above)	4	2550362.15	60.29
	Total	616	4230153.26	100

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.

Question: Have the city took physical assessment of city parks? (ULB's may refer Annex-1 indicative procurement of this document).

Answer: Yes, physical assessment of city parks have been made. DPR for development of parks was prepared under JNNURM after doing physical assessment.

Question: Try estimate the demand gap of open/ green space in the city as per the URDPFI norms and space requirement as per NBC code.

Answer: The open space availability in the city within built up area is 2.69Sq.m per person but according to URDPFI norms per person open space should be 10-12 Sq.m per person.

Question: 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.

Answer: There is no land for parks in the old built up area of corporation. ADA has provision of land for parks in the Master Plan which can be developed and service level can be enhanced. Agra Municipal Corporation is planning to redevelop the existing parks.

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

Answer: Master plan is available for the city for year 2001-2021.

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

Answer: Proposal for installing child friendly components in the city parks will be made as per AMRUT Guidelines.

Question: 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.?

Answer: Agra Municipal Corporation after development will maintain them with the involvement of RWAs/ Citizens Groups and NGOs. CSR component shall also be considered for maintenance and development of Future Parks.

Question: 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

ONGOING UNDER AMRUT /SMART CITY AREA (2015-16)					
S.No	Name of Project	Scheme Name	Cost in Rs Cr. (Approved by SLTC/SHPSC)	Scheduled Month of Completion	Status (as on dd mm yy)
1	Sur Vatika, Sector-2 Awas Vikas Park.	AMRUT	0.62	27/3/2017	50% Work Done
2	Balkeshwar Park	AMRUT	0.54	18/3/2017	40% Work Done
3	Ramleela Park	AMRUT	0.65	Re-Tender	15% Work Done

PROJECT APPROVED IN 2016-17					
S.No.	Name of Project	Scheme Name	Cost in Rs Cr. (Approved by SLTC/SHPSC)	Scheduled Month of Completion	Status (as on dd mm yy)
4	Maulana Azad Park	AMRUT	0.15	Re-Tender	
5	Shaheed Nagar Tanki Wala Park	AMRUT	0.47	Re-Tender	

6	Narottam Kunj Park	AMRUT	0.39	Re-Tender	
7	Defense Estate Park	AMRUT	0.38	Re-Tender	

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.

Question: Please provide a set of 2-3 objectives to meet the gap in not more than 100 words.

Answer: 1- Redevelopment of existing parks providing basic amenities as footpath, public convenience and dust bins
2- Providing facilities like children friendly equipments, landscaping, development of sitting area, pathways, lights/Lamps, Boundary walls and beautification through fountains in existing parks.

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. Also identify & describe the prevailing models of parks development & maintenance in your city? Any new model your city wishes to adopt? (Word Limit: 200 Words)

Answer: At present there is AMRUT Yojna ongoing project pertaining to development of parks and green spaces.

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: 250 Words)

Question: Has all relevant stakeholders groups been involved in the consultation?

Answer: Yes, A survey has been done involving all relevant stakeholders.

Question: Explore option for O&M Contracts Including PPPP with (RWAs/Citizens Groups/Corporate Groups-CSR, Selling Advertisement rights etc.

Answer: In future ULB will make O&M contracts through Public Private Community Partnership (PPCP) with RWAs/ Citizens Groups/ Corporate Groups – CSR, Selling advertisement rights etc.

Question: Explain how the city plans to establish a system of maintenance with active citizens engagement as per AMRUT Guidelines.

Answer: Agra Municipal Corporation is planning to establish a system of maintenance with active citizen engagement by applying a minimum entry charges. AMC has already has such system Sur Vatika in Awas Vikas Sikandra Colony.

Question: Has ward/ zone level consultations held in the city?

Answer: Yes, Agra Municipal Corporation has conducted meeting with ward members in Sadan on 5.10.2015.

Question: Has alternatives explored are crowd sourced?

Answer: Yes, alternatives explored are crowd sourced and with a long discussion.

Question: What is feedback on the suggested alternatives and innovations?

Answer: During meeting, suggestions for rejuvenation of the existing parks with all facilities especially parks with child friendly play equipments were received.

Question: Has alternative taken up for discussions are prioritized on the basis of consultations?

Answer: Yes, alternatives taken up for discussions are prioritized on the basis of consultations.

Question: What methodology adopted for prioritizing the alternatives?

Answer: The alternatives have been prioritized based on the local requirement of each parks identified during the preparation of inventory.

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)

Question: What are the sources of funds?

Answer: No other source of funds are available with AMC other than central Govt. or State Govt. funding.

(Amount in Rs. Cr)

FUND ALLOCATION	Share			Total
	GOI (50%)	State (30%)	ULB (20%)	
Year 2015-16	0.91	0.54	0.36	1.81
Year 2016-17	0.7	0.42	0.28	1.39
Year 2017-20	2.85	1.71	1.14	5.69

Question: Has projects been converged with other program and schemes?

Answer: Projects have not been converged with any other program and scheme regarding development of parks. But Smart city area has been taken into consideration for ABD Convergence regarding development of Open Spaces and Public Utilities in Swatchh Bharat Mission.

Question: Has projects been prioritized based on “more with less” approach?

Answer: Yes, projects have been prioritized.

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)

Answer: Land is available for rejuvenation of parks. The land is under possession of AMC

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)

Disaster and environmental aspects will be considered for installation of equipments and development of other amenities in the parks.

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)

Question: How the proposed finance plan is structured for transforming and creating infrastructure projects?

Answer: Project will be funded by GOI, State & ULB in ratio 50% GOI, 50% (state and ULB)

Question: List of individual projects which is being financed by various stakeholders?

Answer: No, individual projects are being financed by various stakeholders.

Question: Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?

Answer: Yes, financial plan prepared for identified projects based on financial convergence and consultation with funding partners. i.e GOI, state and ULB.

Question: Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations?

Answer: Yes the financial structure is sustainable.

Question: Have the financial assumptions been listed out?

Answer: Yes, financial assumptions been listed out.

Question: Does financial plan for the complete life cycle of the prioritized development?

Answer: Yes financial plan for the complete life cycle of the prioritized development.

Question: Does financial plan include percentage share of different stakeholders (Centre, State, ULBs)

Answer: Yes, financial plan include percentage share of different stakeholders.

Question: Does it include financial convergence with various ongoing projects.

Answer: Financial Convergence with various ongoing projects have not been converged with any other program and scheme regarding development of parks. But Smart city area has been taken into consideration for ABD Convergence regarding development of Open Spaces and also Public Utilities in Swatchh Bharat Mission.

Question: Does it provide year-wise milestones and outcomes?

Answer: Yes, it provide year-wise milestones and outcomes

Details in financial plan shall be provided as per Table 8.2, 8.3, 8.4 and 8.5 these tables are based on AMRUT guidelines tables 2.1, 2.2, 2.3.1, 2.3.2, and 2.5.

TABLE 8.2 DETAILS OF PRIORITIZED PROJECTS PROPOSED UNDER AMRUT DURING FINANCIAL YEAR

Table -:6 Master Plan Of Projects w.r.t. Park Development for Mission Period

(As Per Table 2.1 of AMRUT Guidelines)

(Amt in Rs. Cr)

Sr. No.	Project Name	Priority No.	Year in which to be implemented	Years in which proposed to be completed	Estimated Cost/DPR
Year 2015-16					
1	Sur Vatika, Sector-2 Awaas Vikas Park.	1	2015-16	27/3/2017	0.622 (SLTC)
2	Balkeshwar Park	1	2015-16	18/3/2017	0.5352 (SLTC)
3	Ramleela Park	2	2015-16	Re-Tender	0.653 (SLTC)

Year 2016-17					
4	Maulana Azad Park	3	2016-17	Re-Tender	0.1482 (SLTC)
5	Shaheed Nagar Tanki Wala Park	3	2016-17	Re-Tender	0.4663 (SLTC)
6	Narottam Kunj Park	3	2016-17	Re-Tender	0.3927 (SLTC)
7	Defence Estate Park	3	2016-17	Re-Tender	0.3844 (SLTC)
Year 2017-20					
8	Pani Tanki Janak Park	4	2017-20	Proposed	0.7249
9	Madhav Park	4	2017-20	Proposed	0.6972
10	Tikona Park	4	2017-20	Proposed	0.6831
11	Taj Nagri Phase-I opp. EWS 144	4	2017-20	Proposed	0.4711
12	Amarlok Colony Near Bal Vidya Mandir	4	2017-20	Proposed	0.165
13	Bhagat Singh Park, Shaheed Nagar	5	2017-20	Proposed	0.593
14	Bank Colony Park, Opp. 22 Isha Niketan	5	2017-20	Proposed	0.6882
15	Model Town Colony Park, Idgah	5	2017-20	Proposed	0.547
16	Trans Yamuna A-570	5	2017-20	Proposed	0.4401
17	Trans Yamuna Phase II Block D H.No. 102	5	2017-20	Proposed	0.683

Table -:7 Master Service Levels Improvements during Mission Period

(As Per Table 2.2 of AMRUT Guidelines)

Year 2015-16

(Amount in Rs. Cr)

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost
			Indicator	Existing (2015)	After (2017)	
1	Sur Vatika, Sector-2 Awaas Vikas Park.	Paved Pathways with 60mm thick interlocking tiles 2.5m wide length 640m Area 1600 sq.m. Rate =1900/- Per Sq.	3.00 sq.m (per capita open space required)	2.69 sq.m	2.70 sq.m	0.3040
		Child-Friendly play equipment's (4 Jhula@ Rs. 19000/-)				0.0076
		Steel Bench-12 in a Park (12 Bench @12000/- Each)				0.0144
		Solar Light 4 (3.80 Lakh Each)				0.1520

		Boundary Wall 180m @8000/-m.				0.1440
					Total	0.6220
2	Balkeshwar Park	Paved Pathways with 60mm thick interlocking tiles 2.5m wide length 444m. Area 1110 sq.m. Rate =1900/- Per Sq.	3.00 sq.m (per capita open space required)	2.69 sq.m	2.71 sq.m	0.2100
		Child-Friendly play equipments (4 Jhula@ Rs. 19000/-)				0.0072
		Steel Bench-12 in a Park (12 Bench @16600/- Each)				0.0200
		Solar Light 4 (3.8 Lakh Each)				0.1520
		Fountain 1 (5 lakhs Each)				0.0500
		Boundary Wall 120m @8000/-m.				0.0960
					Total	0.5352
3	Ramleela Park	Paved Pathways with 60mm thick interlocking tiles 2.5m wide length 372m Area 930 sq.m. Rate =1900/- Per Sq.	3.00 sq.m (per capita open space required)	2.69 sq.m	2.72 sq.m	0.1770
		Child-Friendly play equipment's (4 Jhula@ Rs. 19000/-)				0.0076
		Steel Bench-10 in a Park (10 Bench @12000/- Each)				0.0120
		Solar Light 4 (3.80 Lakh Each)				0.1520
		Boundary Wall 380m @8000/-m.				0.3040
					Total	0.6526

Year 2016-17

(Amount in Rs. Cr)

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost
			Indicator	Existing (2016)	After (2018)	
4	Maulana Azad Park	Steel Bench-12 in a Park (6 Bench @18937/- Each)	3.00 sq.m (per capita open space required)	2.69 sq.m	2.72 sq.m	0.0114
		Semi High Mast Solar Light-1 (69365 thousand/- Each)				0.0069

		Boundary Wall 115m @9168/-m.				0.1054
		Display Board-1@10000/-				0.0010
		Dustbin-1@16918/-				0.0017
		Plantation and horticulture				0.0025
		Earthwork in filling and dressing 151.32 cu.m @ 266/-				0.0041
		Entrance Gate-2 @14150/-				0.0028
		Cattle Cature-1 @27038/-				0.0027
		Submersible Pump-1 @96253/-				0.0096
					Total	0.1482
5	Shaheed Nagar Tanki Wala Park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, length 177.1 m Area 347.12 sq.m. Rate =1186/- Per Sq.m	3.00 sq.m (per capita open space required)	2.69 sq.m	2.72 sq.m	0.0412
		Child-Friendly play equipment's (5 Jhula@ Rs. 58643/-)				0.0293
		Steel Bench-12 in a Park (10 Bench @18937/- Each)				0.0189
		Semi High Mast Solar Light-1 (69365 thousand/- Each)				0.0069
		Boundary Wall 220.78m @9281/-m.				0.2049
		Display Board-1@10000/-				0.0010
		Dustbin-2@16918/-				0.0034
		Plantation and horticulture (landscaping)				0.0844
		Earthwork in filling and dressing 1377.18 cu.m @266/-				0.0370
		Entrance Gate-4 @10169/-				0.0041
		Cattle Cature-1 @27038/-				0.0027
		Submersible Pump-1 @96253/-				0.0096
		Rain water Harvesting				0.0229

					Total	0.4663
6	Narottam Kunj Park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, length 161.9 m Area 484.62 sq.m. Rate =1136/- Per Sq.m	3.00 sq.m (per capita open space required)	2.69 sq.m	2.72 sq.m	0.0507
		Child-Friendly play equipment's (5 Jhula@ Rs. 58643/-)				0.0293
		Steel Bench-10 in a Park (10 Bench @18937/- Each)				0.0189
		Semi High Mast Solar Light-1 (69365 thousand/- Each)				0.0069
		Boundary Wall 250.25 m @7350 /-m.				0.1840
		Display Board-1@10000/-				0.0010
		Dustbin-2@16918/-				0.0034
		Plantation and horticulture (landscaping)				0.0437
		Earthwork in filling and dressing 1377.18 cu.m @266/-				0.0346
		Entrance Gate-4 @10169/-				0.0034
		Cattle Cature-1 @27038/-				0.0027
		Submersible Pump-1 @96253/-				0.0096
		Rain water Harvesting				
					Total	0.3927
7	Defense Estate Park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, length 168 m Area 328.10 sq.m. Rate =1206/- Per Sq.m	3.00 sq.m (per capita open space required)	2.69 sq.m	2.72 sq.m	0.0396
		Child-Friendly play equipment's (5 Jhula@ Rs. 58703/-)				0.0293
		Steel Bench-10 in a Park (10 Bench @18937/- Each)				0.0189
		Semi High Mast Solar Light-1 (69365 thousand/- Each)				0.0069
		Boundary Wall 170.68 m @9947 /-m.				0.1698
		Display Board-1@10000/-				0.0010
		Dustbin-2@16918/-				0.0338
		Plantation and horticulture (landscaping)				0.0564
		Earthwork in filling and dressing 7337.59 cu.m @266/-				0.0198
		Entrance Gate-4 @10169/-				0.0041

		Cattle Cature-1 @27038/-				0.0027
		Submersible Pump-1 @96253/-				0.0096
		Rain water Harvesting				0.0229
					Total	0.3844

Year 2017-20

(Amount in Rs. Cr)

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost
			Indicator	Existing (2017)	After (2020)	
8	Pani Tanki Janak Park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 70 sq.m. Rate =1206/- Per Sq.m repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.73 sq.m	0.0427
		Child-Friendly play equipment's (4 Jhula@ Rs. 293625/-)				0.1175
		Steel Bench-20 in a Park (20 Bench @27219/- Each)				0.0544
		Boundary Wall 311.15 m repair work				0.0063
		Display Board-1@10000/-				0.0010
		Dustbin-10 @14645/-				0.0146
		Plantation and horticulture (landscaping)				0.0491
		Earthwork in filling and dressing 1797 cu.m @266/-				0.0478
		Entrance Gate-1 @390000/-				0.0390
		Submersible Pump-2 @96253/-				0.0193
		Fountain with water body-1				0.1797
		Public Convenience-5 seated				0.0500
		Yoga Plateform-1				0.0250
		Minimast light-2 @123900/-				0.0248
				Sub Total	0.6713	
		GST @ 8%			0.0537	
				Total	0.7250	
9	Madhav Park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 70 sq.m. repair work with shed	3.00 sq.m (per capita open space required)	2.69 sq.m	2.73 sq.m	0.0579
		Child-Friendly play equipment's (7 Jhula@ Rs. 90000/-)				0.0630

		Steel Bench-25 in a Park (25 Bench @27219/- Each)				0.0680
		Display Board-1@10000/-				0.0010
		Dustbin-15 @14645/-				0.0220
		Plantation and horticulture (landscaping)				0.0391
		Earthwork in filling and dressing 340 cu.m @266/-				0.0090
		Entrance Gate-1 @390000/-				0.0390
		Submersible Pump-2 @96253/-				0.0193
		Fountain with water body-1				0.1797
		Rainwater Harvesting-1 @ 228515				0.0285
		Public Convenience-5 seated				0.0500
		Yoga Pateform-1 @250000/-				0.0250
		Mini Mast Light-4 @123900/-				0.0496
					Sub Total	0.6512
		GST @ 8%				0.0521
					Total	1.3544
10	Taj Nagari Phase-1 Tikoniya park	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 320.50 sq.m. @2278/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.73 sq.m	0.0730
		Child-Friendly play equipment's (6 Jhula@ Rs. 91573/-)				0.0549
		Steel Bench-10 in a Park (10 Bench @27219/- Each)				0.0272
		Display Board-1@10000/-				0.0010
		Dustbin-10 @14645/-				0.0146
		Plantation and horticulture (landscaping)				0.0298
		Earthwork in filling and dressing 446 cu.m @266/-				0.0119
		Entrance Gate-1 @990000/-				0.0390
		Submersible Pump-2 @96253/-				0.0193
		Wooden look hut and citing benches-1				0.1080
		Fountain with water body-1				0.0790
		Public Convinience-5				0.0500
		Mini Mast Light-2 @123900/-				0.0248

		Boundary wall 246 rmt @4065/-				0.1000
					Sub Total	0.6325
		GST @ 8%				0.0506
					Total	0.6831
11	Taj Nagri Phase-I opp. EWS 144	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 153 sq.m. @1811/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.73 sq.m	0.0277
		Child-Friendly play equipment's (5 Jhula@ Rs. 50399/-)				0.0252
		Steel Bench-10 in a Park (10 Bench @27219/- Each)				0.0272
		Display Board-1@10000/-				0.0010
		Dustbin-6 @8787/-				0.0088
		Plantation and horticulture (landscaping)				0.0197
		Earthwork in filling and dressing 373.45 cu.m @266/-				0.0099
		Entrance Gate-2 @51778/-				0.0104
		Submersible Pump-2 @96253/-				0.0193
		Fountain-1				0.0780
		Mini Mast Light-2 @123900/-				0.0248
		Boundary wall 143 rmt @12890/-				0.1843
					Sub Total	0.4363
		GST @ 8%				0.0349
					Total	0.4712
12	Amarlok Colony Near Bal Vidya Mandir	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 100 sq.m. @2683/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.73 sq.m	0.0268
		Child-Friendly play equipment's (4 Jhula@ Rs. 46081/-)				0.0184
		Steel Bench-6 in a Park (6 Bench @27219/- Each)				0.0163
		Display Board-1@10000/-				0.0010
		Dustbin-4 @14645/-				0.0059
		Plantation and horticulture (landscaping)				0.0044

		Earthwork in filling and dressing 571 cu.m @266/-				0.0152
		Entrance Gate-1				0.0125
		Submersible Pump-1 @96253/-				0.0096
		Mini Mast Light-1				0.0139
		Boundary wall 116 rmt @2500/-				0.0290
					Sub Total	0.1531
		GST @ 8%				0.0123
					Total	0.1654
13	Bhagat Singh Park, Shaheed Nagar	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 398.35 sq.m. @2121/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.74 sq.m	0.0861
		Child-Friendly play equipment's (5 Jhula@ Rs. 73528/-)				0.0368
		Steel Bench-10 in a Park (10 Bench @27219/- Each)				0.0272
		Display Board-1@10000/-				0.0010
		Dustbin-8 @14645/-				0.0117
		Plantation and horticulture (landscaping)				0.0218
		Earthwork in filling and dressing 778 cu.m @266/-				0.0207
		Entrance Gate-1				0.0390
		Submersible Pump-2 @96253/-				0.0193
		Mini Mast Light-2 @123900/-				0.0248
		Boundary wall 137 rmt @9688/-				0.1327
		Public Convenience-5				0.0500
		Fountain-1				0.0780
					Sub Total	0.5491
		GST @ 8%				0.0439
					Total	0.5930
14	Bank Colony Park, Opp. 22 Isha Niketan	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 300.70 sq.m. @1818/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.74 sq.m	0.0547

		Child-Friendly play equipment's (5 Jhula@ Rs. 73528/-)				0.0368
		Steel Bench-10 in a Park (10 Bench @27219/- Each)				0.0272
		Display Board-1@10000/-				0.0010
		Dustbin-8 @14645/-				0.0117
		Plantation and horticulture (landscaping)				0.0218
		Earthwork in filling and dressing 446.21 cu.m @266/-				0.0119
		Entrance Gate-1				0.0390
		Submersible Pump-2 @96253/-				0.0193
		Mini Mast Light-4 @123900/-				0.0496
		Boundary wall 162 rmt @12740/-				0.2064
		Public Convinience-5				0.0500
		Fountain with hut-1				0.1080
					Sub Total	0.6372
		GST @ 8%				0.0510
					Total	0.6882
15	Model Town Colony Park, Idgah	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 100 sq.m. @26828/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.74 sq.m	0.0268
		Child-Friendly play equipment's (5 Jhula@ Rs. 48581/-)				0.0243
		Steel Bench-8 in a Park (8 Bench @27219/- Each)				0.0218
		Display Board-1@10000/-				0.0010
		Dustbin-5 @14645/-				0.0073
		Plantation and horticulture (landscaping)				0.0327
		Earthwork in filling and dressing 1079 cu.m @266/-				0.0287
		Entrance Gate-2 @195450/-				0.0391
		Submersible Pump-2 @96253/-				0.0193
		Mini Mast Light-2 @123900/-				0.0248
		Boundary wall 120 rmt @12740/-				0.1534
		Public Convinience-5				0.0500

		Fountain-1				0.0780
					Sub Total	0.5071
		GST @ 8%				0.0406
					Total	0.5476
16	Trans Yamuna A570	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 340.50 sq.m. @1777.50/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.74 sq.m	0.0604
		Child-Friendly play equipment's (4 Jhula@ Rs. 72215/-)				0.0289
		Steel Bench-8 in a Park (8 Bench @20414/- Each)				0.0163
		Display Board-1@10000/-				0.0010
		Dustbin-2 @36612.50				0.0073
		Plantation and horticulture (landscaping)				0.0144
		Earthwork in filling and dressing 1078 cu.m @266/-				0.0287
		Entrance Gate-1 @58765/-				0.0059
		Submersible Pump-1 @96253/-				0.0096
		Mini Mast Light-1 @139240/-				0.0139
		Boundary wall 179 rmt @9555/-				0.1710
		Public Convinience-5				0.0500
					Sub Total	0.4075
		GST @ 8%				0.0326
					Total	0.4401
17	Trans Yamuna Phase II Block D H.No. 102	Paved Pathways with 60mm thick interlocking tiles 1.5m wide, Area 486 sq.m. @2015/- repair work	3.00 sq.m (per capita open space required)	2.69 sq.m	2.74 sq.m	0.0979
		Child-Friendly play equipment's (5 Jhula@ Rs. 69448/-)				0.0347
		Steel Bench-15 in a Park (15 Bench @27219/- Each)				0.0408
		Display Board-1@10000/-				0.0010
		Dustbin-8 @14645.00				0.0117
		Plantation and horticulture (landscaping)				0.0218
		Earthwork in filling and dressing 654 cu.m @266/-				0.0174

		Entrance Gate-2 @39987/-				0.0080
		Submersible Pump-2 @96253/-				0.0193
		Mini Mast Light-2 @130000/-				0.0236
		Boundary wall 146 rmt @10036/-				0.1465
		Public Convinience-5				0.0500
		Rain water harvesting-1				0.0229
		Fountain with water body-1				0.1370
					Sub Total	0.6327
		GST @ 8%				0.0506
					Total	0.6833

Table 8:- Annual Fund Sharing Pattern for Projects w.r.t to Development

(As per Table 2.3 of AMRUT Guidelines)

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share			
			GOI (50%)	State (30%)	ULB (20%)	Total
Year 2015-16						
1	Sur Vatika, Sector-2 Awas Vikas Park.	0.622	0.311	0.1866	0.1244	0.622
2	Balkeshwar Park	0.5352	0.2676	0.16056	0.10704	0.5352
3	Ramleela Park	0.653	0.3265	0.1959	0.1306	0.653
Year 2016-17						
4	Maulana Azad Park	0.1482	0.0741	0.04446	0.02964	0.1482
5	Shaheed Nagar Tanki Wala Park	0.4663	0.2332	0.1399	0.0933	0.4663
6	Narottam Kunj Park	0.3927	0.1964	0.1178	0.0785	0.3927
7	Defence Estate Park	0.3844	0.1922	0.1153	0.0769	0.3844
Year 2017-20						
8	Pani Tanki Janak Park	0.7249	0.36245	0.21747	0.14498	0.7693
9	Madhav Park	0.6972	0.3486	0.20916	0.13944	0.6455
10	Tikona Park	0.6831	0.34155	0.20493	0.13662	0.6831
11	Taj Nagri Phase-I opp. EWS 144	0.4711	0.2356	0.14133	0.09422	0.47115
12	Amarlok Colony Near Bal Vidya Mandir	0.165	0.0825	0.0495	0.033	0.165
13	Bhagat Singh Park, Shaheed Nagar	0.593	0.2965	0.1779	0.1186	0.593

14	Bank Colony Park, Opp. 22 Isha Niketan	0.6882	0.3441	0.20646	0.13764	0.6882
15	Model Town Colony Park, Idgah	0.547	0.2735	0.1641	0.1094	0.547
16	Trans Yamuna A-570	0.4401	0.22005	0.13203	0.08802	0.4401
17	Trans Yamuna Phase II Block D H.No. 102	0.683	0.3415	0.2049	0.1366	0.683
	Total	8.89440	4.44735	2.6683	1.7789	8.89440

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			
Year 2015-16											
1	Sur Vatika, Sector-2 Awaas Vikas Park.	50%		30%			20%				0.622
2	Balkeshwar Park	50%		30%			20%				0.5352
3	Ramleela Park	50%		30%			20%				0.653
Year 2016-17											
4	Maulana Azad Park	50%		30%			20%				0.148
5	Shaheed Nagar Tanki Wala Park	50%		30%			20%				0.466
6	Narottam Kunj Park	50%		30%			20%				0.393
7	Defence Estate Park	50%		30%			20%				0.384
Year 2017-20											
8	Pani Tanki Janak Park	50%		30%			20%				0.7249
9	Madhav Park	50%		30%			20%				0.6972
10	Tikona Park	50%		30%			20%				0.6831
11	Taj Nagri Phase-I opp. EWS 144	50%		30%			20%				0.4711
12	Amarlok Colony Near Bal Vidya Mandir	50%		30%			20%				0.165
13	Bhagat Singh Park, Shaheed Nagar	50%		30%			20%				0.593
14	Bank Colony Park, Opp. 22	50%		30%			20%				0.6882

	Isha Niketan									
15	Model Town Colony Park, Idgah	50%		30%			20%			0.547
16	Trans Yamuna A570	50%		30%			20%			0.4401
17	Trans Yamuna Phase II Block D H.No. 102	50%		30%			20%			0.683

Table :-10 Year wise Plan for Service Levels Improvements

(As Per Table 2.5 of AMRUT Guidelines)

Proposed Projects	Project Cost	Indicator	Base line	Annual Targets						
				(Increment from the Baseline Value)						
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020	
				H1	H2					
Park Development										
Year 2015-16										
Sur Vatika, Sector-2 Awaas Vikas Park.	0.622	Development of Green Spaces/Parks	2.69 Sq.m		2.69 Sq.m	2.70 Sq.m				
Balkeshwar Park	0.5352	Development of Green Spaces/Parks	2.69 Sq.m		2.70 Sq.m	2.71 Sq.m				
Ramleela Park	0.653	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m				
Year 2016-17										
Maulana Azad Park	0.1482	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m	2.72 Sq.m			
Shaheed Nagar Tanki Wala Park	0.4663	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m	2.72 Sq.m			
Narottam Kunj Park	0.3927	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m	2.72 Sq.m			
Defence Estate Park	0.3844	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m	2.72 Sq.m			
Year 2017-20										
Pani Tanki Janak Park	0.7249	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.72 Sq.m	2.73 Sq.m			
Madhav Park	0.6972	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m			

Tikona Park	0.6831	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m		
Taj Nagri Phase-I opp. EWS 144	0.4711	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.73 Sq.m	
Amarlok Colony Near Bal Vidya Mandir	0.165	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.73 Sq.m	
Bhagat Singh Park, Shaheed Nagar	0.593	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.74 Sq.m	
Bank Colony Park, Opp. 22 Isha Niketan	0.6882	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.74 Sq.m	2.74 Sq.m
Model Town Colony Park, Idgah	0.547	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.74 Sq.m	2.74 Sq.m
Trans Yamuna A570	0.4401	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.74 Sq.m	2.74 Sq.m
Trans Yamuna Phase II Block D H.No. 102	0.683	Development of Green Spaces/Parks	2.69 Sq.m		2.71 Sq.m	2.73 Sq.m	2.73 Sq.m	2.74 Sq.m	2.74 Sq.m

SECTOR WISE SLIP TEMPLATE: WATER SUPPLY

1. ASSESS THE SERVICE LEVEL GAP

The first step is to assess the existing situation and service levels gaps for Water Supply (AMRUT Guidelines; para 3 & 6). This will also include existing institutional framework for the sector. AMRUT is focused on improvement in service levels. The zone wise data shall be used in identifying the gaps. These zone-wise gaps will be added to arrive at city level service gaps. While assessing service level gap reply following questions not more than word indicated against each question.

QUESTION: What kind of baseline information is available for water supply system of the city? Detail out the data, information, plans, reports etc related to sector. Is zone wise information available? (75 words)

CITY DEVELOPMENT PLAN OF AGRA ,AGRA WATER SUPPLY PROJECT (JICA) ,COMPREHENSIVE ENVIRONMENTAL MANAGEMENT PLAN ,SPECIAL ASSISTANCE FOR PROJECT INFORMATION FOR AGRA WATER SUPPLY 2006 , DPR OF AGRA WATER SUPPLY JAL NIGAM jnNURM ,MASTER PLAN OF AGRA 2021 Yes 25 ZONE WARD WISE information is available.

QUESTION: Have you collected census 2011 data? Are you aware of baseline survey data of MoUD? Have you correlated data from these and other sources? (75 words)

YES. DATA OF CENSUS 2011 IS AVAILABLE WITH NAGAR NIGAM AGRA IS AWARE OF MOUD SURVEY DATA. THE DATA AVAILABLE IS BEING USED AS REFERENCE TO DEVELOP THE SLIP.

Total Population (Census, 2011)	Location of source of drinking water Population	Total Number of Households	Tap Water from treated source
	1,14,383		
15,74,542	Total	2,40,831	1,36,307
	Within the premises	1,86,465	1,18,641
	Near the premises	42,991	15728
	Away	11,375	1,938
Departmental Data (2015)	1574542	3,52,850	1,70,000

Yes we have collected the information from census 2011 data. As per Census 2011 AGRA have the population of (Municipal Data), House hold 2,40,831 (Census Data), and out of which 1,86,465 HH lies within the premises of water supply line and only 1,18,641 HH have the tapped water supply connection. Yes we have correlated with DPR data and data available with the Jal Nigam. As per Municipal record of Agra Nagar Nigam at present 352850 HH and 1,70,000 HH with water supply connection. Near the premise HH is

QUESTION: What are existing service levels for water supply in the city? What is the coverage of water supply Connections? What is per capita supply of water? How much is the extent of metering? How much is non-revenue water? Provide information in table 1.1

Table 1.1 Status of Water Supply service levels

Sr. No	Indicators	Present status	MOUD Benchmark	RELIABILITY
1	Coverage of water supply connections	48%=1,70,000/3,52,850	100%	D
2	a)Per capita supply of water with NRW	176 LPCD	135 LPCD	D
3	Extent of metering of water connections	0%	100%	A
4	Extent of non-revenue water	40%	20%	D
5	Quality of water supplied	100%	100%	D
6	Cost recovery in water supply services	63.6 %	100%	D
7	Efficiency in collection of water supply related charges	84 %	90%	D

QUESTION: What is the gap in these service levels with regard to benchmarks prescribed by MoUD? (75 words)

As per above table it is clear that gap in service levels is as under:
1. Gap in coverage of water supply is 52 %
2. NO Gap in Per capita water availability is about 235 LPCD, additional 100 LPCD .
3. Gap in Metering is 100%.
4. Gap in NRW is 20 %
5. Gap in Quality of supplied water as per PHE norms is 20%
6. Gap in Cost recovery is 36.4% with expenditure on electricity and power.
7. Gap in efficiency of water charges/tax collection is about 16 %.

• **SOURCE OF WATER AND WATER TREATMENT SYSTEM**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

QUESTION: What is the existing source of water? Is it surface water source or underground water source? What is the capacity of these sources?

EXISTING SOURCE OF WATER 2015 IS SURFACE WATER FROM YAMUNA RIVER **225 MLD** (WATER WORKS JEEVNI MANDI) +**144 MLD** (SIKANDRA WTP) . GANGA RIVER(PROPOSED) , TOTAL **369 MLD** surface water available in which Agra Municipal Corporation gives bulk supply **91 MLD** to **cantonment board ,railway stations ,railways colony**,kheria air port authority .No ground water is available .

QUESTION: Is there any treatment provided to water from these sources? How much water is required to be treated daily? What is the treatment capacity installed in the city?

Yes, surface water chlorination is being done by chlorinator at source

QUESTION: What per capita water supply in LPCD (liter per capita per day) comes out, if you divide total water supply by the total population.

Per Capita water supply by surface=369-91(cantonment+railways,airbase+bulk)MLD= /15,74,542 (Census 2011)=176 LPCD.

Reference ulb handbook,comprehensive environmental management plan(CEMP)NEERI.

DISTRIBUTION ZONES

Please provide information in 150 words on the above responding to (however not limited to) following questions.

QUESTION: City is divided in how many zones for water supply ?

Currently city is divided in 25 ZONES for water supply .

QUESTION: Provide details of total no of Households (HH) in each zone, no of HH with and without water tap connections in the Table 1.2

Table 1.2: ZONE Wise Coverage of Households

Wards No	Total No of Households(As per census)	Total No of Households(As per municipal)	Households with Water tap Connection	Households without water tap connections
Zone 1		23590	11300	12290
Zone 2		33067	5800	27267
Zone 3		5936	4100	1836
Zone 4		21649	11500	10149
Zone 5		15425	7500	7925
Zone 6		4750	3300	1450

Zone 7		10066	5300	4766
Zone 8		3074	0	3074
Zone 9		7539	4500	3039
Zone 10		13603	9300	4303
Zone 11		16119	6300	9819
Zone 12		13725	2500	11225
Zone 13		13927	9600	4327
Zone 14		28097	15700	12397
Zone 15		7117	3900	3217
Zone 16		11156	7600	3556
Zone 17		6466	4500	1966
Zone 18		14362	9600	4762
Zone 19		16524	11200	5324
Zone 20		11174	7500	3674
Zone 21		7856	5200	2656
Zone 22		21649	8000	13649
Zone 23		13401	3700	9701
Zone 24		2480	700	1780
Zone 25		30099	11400	18699
Total HH	HH	352850	170000	182850

• **STORAGE OF WATER**

Please provide information in 150 words on the above responding to (however not limited to) following questions.

QUESTION: What is the total water storage capacity in the city ? What is capacity of elevated and ground water reservoirs?

Total Water Storage Capacity--100.44 ML
Elevated Water Reservoirs----- 19 O.H.T ---- 39.68 ML capacity
Ground Water Reservoir----- 21 (C.W.R) Nos---60.36 ML (AMC + cantonment C.W.R 7.95 ML) capacity

QUESTION: In case of surface water, does city need to have ground level reservoirs to store raw treated water?

Currently storage capacity of surface water reservoirs is 60.36 ML(2015),YES CITY NEED 43.98 (10 ML C.W.R + 33.98 ML O.H.T) additional capacity is required for the perspective year 2021 under Amrut .

QUESTION: Is water being supplied to consumers through direct pumping or through elevated reservoirs?

Water is supplied to consumers by both the means of direct pumping ,O.H.T and C.W.R as well

QUESTION: Is storage capacity sufficient to meet the cities demand ?

Storage capacity is not sufficient to meet city demand for 2021 ,additional capacity required is 43.98ML (C.W.R+O.H.T)

DISTRIBUTION NETWORK -Please provide information in 150 words on the above responding

QUESTION: What is the total length of water supply distribution pipe line laid in the city?

Total Length of water supply distribution pipe line of 25 ZONES is 1280 KM.

QUESTION: What is the total road length in the city? Is the pipe lines are laid in all streets? Is the objective of universal coverage of water supply pipe line is achieved?

Total road Length-----1728 KM., 528 KM streets are not having pipelines in the city.

QUESTION: What are the kind of pipe materials used in distribution lines ?

PVC,AC,DI and HDP(Pipe to be proposed)materials are being used.

QUESTION: Provide zone wise details of street length with and without water distribution lines

Total ZONE No	Total Street Length (As PER AGRA data)	Street length with water distribution pipe line(data)	Street length without water distribution pipe line
Zone 1	180	51	129
Zone 2	309	126	183
Zone 3	23	22	1
Zone 4	19	15	4
Zone 5	74	60	14
Zone 6	13	12	1
Zone 7	25	25	0
Zone 8	148	140	8
Zone 9	116	110	6
Zone 10	90	77	13
Zone 11	44	35	9
Zone 12	69	55	14
Zone 13	43	30	13
Zone 14	27	25	2
Zone 15	33	32	1

Zone 16	12	10	2
Zone 17	34	33	1
Zone 18	33	35	4
Zone 19	101	95	6
Zone 20	63	56	7
Zone 21	74	60	14
Zone 22	46	43	3
Zone 23	83	75	8
Zone 24	14	12	2
Zone 25	49	46	3
TOTAL	1728 KM	1280 KM	448 KM

INSTITUTIONAL FRAMEWORK

Please provide information in 150 words on the above responding to (however not limited to) following questions.

QUESTION: Define role and responsibilities in terms of O&M, policy planning, funding, service provision in table 1.4.

Table 1.4: Functions, roles, and responsibilities

Planning and Design	Construction/ Implementation	O&M
UP jal Nigam Agra	UP jal Nigam Agra & ULB's	JAL KAL NAGAR NIGAM AGRA

QUESTION: How city is planning to execute projects ?

BY NODAL AGENCY U.P JAL NIGAM. THE EXECUTION OF THE PROJECTS WILL BE DONE AS PER INSTRUCTIONS GIVEN BY THE STATE GOVERNMENT AS WELL AS MOUD & SMALLER PROJECTS LIKE BRANCH LINES ,GAPS IN PIPE LINES WIL BE DONE .

QUESTION: Shall the implementation of project be done by Municipal Corporation or any parastatal body? Please refer para 8.1 of AMRUT guidelines.

THE IMPLEMENTATION OF THE PROJECTS WILL BE DONE BY PARA STATAL AGENCIES AS PER INSTRUCTIONS OF STATE GOVERNMENT AS WELL AS MoUD. SMALLER PROJECTS LIKE BRANCH LINES ,GAPS IN PIPE LINES WILL BE DONE BY NAGAR NIGAM AGRA.

2. BRIDGE THE GAP

Once the gap between the existing Service Levels is computed, based on initiatives undertaken in different ongoing programs and projects, objectives will be developed to bridge the gaps to achieve universal coverage. (AMRUT Guidelines; para 6.2 & 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of assessment and meeting the opportunity to bridge the gap.

QUESTION: List out initiatives undertaken in different ongoing programs and projects to address these gaps. For this provide details of ongoing projects being carried out for sector under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table 1.4

Table 1.4: Status of Ongoing/ Sanctioned NA

S. No.	Name of Project	Scheme Name	Cost IN CR	Month of Completion	Status (as on dd mm 2015)
1	Agra Water Supply	JnNURM/ JICA/ ADB etc	102.99cr	December 2015	93%
2	Ganga Jal Project	JICA	2888.88cr	July 2016	22%
3	Trans Yamuna Immediate Relief Scheme	State	33.79cr	December 2015	55%

QUESTION: How much the existing system will able to address the existing gap in water supply system? Will completion of above will improve the coverage of network and collection efficiency? If yes, how much. (100 words)

At present available total storage capacity is 100.44 ML which will be adjusted against required total storage capacity is 43.98(10 ML C.W.R + 33.98 ML O.H.T)

QUESTION: Does the city require additional infrastructure to improve the services? What kind of services will be required to fulfill the gap?

Yes, City require additional infrastructure to improve the services storage reservoirs 43.98 ,distribution system ,replacement of old line to increment in per capita NRW reduction .metering to improve cost recovery ,rising mains for equitable distribution.

QUESTION: How does the city visualize to take the challenge to rejuvenate the projects by changing their orientation, away from expensive asset replacement programs, to focusing on optimum use of existing assets?

Yes, optimum use of existing assets are being consider in DPR.

QUESTION: Has city conducted assessment of Non Revenue Water ? if yes, what is the NRW level? Is city planning to reduce NRW ?

No, NRW Level 45%. Yes city is planning to reduce NRW in AMRUT. Old Pipe line replacement and regularization of illegal connections , Replacement of old rising mains Promote of water connection Programs

QUESTION: Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2021 for water supply pipe network, number of household to be provided with tap connections, and required enhancement in capacity of water source/ treatment plant (MLD). Gaps in water supply service levels be provided as per

Table 1.5 . Demand Gap Assessment for Water Supply Sector

Component	2015			2021	
	Present	Ongoing projects	Total	Demand	Gap
SOURCE AUGMENTATION (MLD)	SURFACE WATER 369 MLD	AGRA WATER SUPPLY 144MLD	SURFACE WATER 513 MLD	513 MLD	-
TREATMENT CAPACITY (MLD)	369 MLD	0	369MLD	436.74MLD	0
ELEVATED STORAGE CAPACITY (ML) SURFACE STORAGE	39.68 ML (19 O.H.T) +60.36ML (21 NOS)	-	39.68 ML +60.36ML=100.04 ML	144.40 ML	43.6ML(C.WR OHT)
DISTRIBUTION NETWORK COVERAGE (KM)	1280KM	0KM	1280	1728 KM	448 KM

OBJECTIVES

Based on above, objectives will be developed to bridge the gaps to achieve universal coverage. While developing objectives following question shall be responded so as to arrive at appropriate objective.

QUESTION: Does each identified objectives will be evolved from the outcome of assessment?

- 1 To universal coverage by regularizing – 352850 HH, water connection through IEC activities- 182850.HH.
- 2- Expansion of new distribution network 340 Km with house- hold (182850 HH) connection in uncovered pockets.
- 3- New Over Head Tanks (OHT) 33.6 ML
- 3B -New C.W.R 10 ML
- 4- Renovation/ Strengthening of existing OHT AND CWR
- 5-REPLACEMENT OF OLD PUMPING PLANTS & chlorinating plants AT Existing CWR
- 5 b Near the premises
- 6- Distribution network 448 KM to cover the house hold line away the premises 182850 HH connections in uncovered pockets.
- 7- replacement of old rising main 10 KM
- 8- New Rising Main 100 Km
- 7- to make the system efficient by reduction of nrw by providing replacement of old pipe line, zoning and leakage detection ,making new HC and regularization of unauthoriseds, Metering of new & unauthorised HC.
- 8-. To improve the quality of water establishment

QUESTION: Does each objective meet the opportunity to bridge the gap?

yes

Please provide List out objectives to meet the gap in not more than 100 words.

3. EXAMINE ALTERNATIVES AND ESTIMATE COST

The objective will lead to explore and examine viable alternatives options available to address these gaps.. These will include out of box approaches. (AMRUT Guidelines; Para 6.4 & 6.8 & 6.9). This will also include review of smart solutions. The cost estimate with broad source of funding will be explored for each. While identifying the possible activities, also examine the ongoing scheme and its solutions including status of completion, coverage and improvement in O&M. Please provide information on the above responding to (however not limited to) following questions.

QUESTION: What are the possible activities and source of funding for meeting out the objectives? (75 words)

GOI, State Govt. and ULB are the source of funding for meeting out the objectives. The possible activities and source of funding for O&M is tax revenue.

QUESTION: How can the activities be converged with other programme like JICA/ ADB funded projects in the city etc? (100 words)

At present, Agra Water Supply (JICA) financed by JICA/ ADB is ongoing project in the city.

QUESTION: What are the options of completing the ongoing activities? (75 words)

NA

QUESTION: What are the lessons learnt during implementation of similar projects? (100 words)

NA.

QUESTION: Have you analyzed best practices and innovative solutions in sector? Is any of the practice be replicated in the city? (75 words)

NA

QUESTION: What measures may be adopted to recover the O&M costs? (100 words)

Regularize of illegal connection, enhancement of coverage area, house hold connections ,adopting metering at every house holds and use of ICT in collection of tax/charges

QUESTION: Whether reduction in O&M cost by addressing NRW levels be applied? (75 words)

yes, leakage detection and its removal, replacement of old lines (damaged,leaked, defunged, chocked,sluice valve etc) with house hold connection, water supply zoning of service area , 100% implementation of metering, replacement of pumping plants at existing cwr.

QUESTION: Are different options of PPP such as Design-build-Operate-Transfer (DBOT), Design Built Finance Operate and Transfer (DBFOT) are considered? (100 words)

These option will be explored while framing the DPR

The alternative activities to meet these activities be defined as per Table 1.6

Table1.6 Alternative Activities To Meet Objectives

Sr. No.	Objective	Activities	Cost	Financing Source
1	COVERAGE OF HOUSE HOLD WATER CONNECTIONS	Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses and leakages to reduce N.R.W and accountable for water 95824 H.Hx@ 50Rs /H.H	0.47CR	AMRUT/State and ULB

2	COVERAGE OF HOUSE HOLD WATER CONNECTIONS	Providing house hold level connections to increase coverage (27263 H.H x Rs. 5000/- per connection)	13.63CR	AMRUT/State and ULB
3	COVERAGE OF WATER SUPPLY CONNECTIONS	Branching & sub branching distribution network to cover the house hold line near the premises 67824 H.H connections in uncovered pockets lying near the premises. A. NEW PIPE LINE 125 KM @ 0.2 CR=25.00CR	25.00 CR	AMRUT/State and ULB
4	COVERAGE OF WATER SUPPLY CONNECTIONS	Expansion of New distribution network with household (87026 HH) connection in uncovered pockets. Away from premises. (323km) @0.38 cr Per km	122.74CR	AMRUT/State and ULB
5	PER CAPITA SUPPLY OF WATER LPCD	1- New Over Head Tanks – 33.98 ML CAPACITY =50.97cr 2- NEW C.W.R.-10ML = 14.50cr 3- NEW RISING MAIN 100KM =109.62cr (300MM-900MM)	175.09CR	AMRUT/State and ULB
6	PER CAPITA SUPPLY OF WATER LPCD	<u>Augmentation of new water production systems</u> 1- Renovation/Strengthening of existing OHT AND CWR = 15.00cr 2-REPLACEMENT OF OLD PUMPING PLANTS & chlorinating plants at Existing CWR = 8.00cr	23.00 CR	AMRUT/State and ULB
7	PER CAPITA SUPPLY OF WATER LPCD	Replacement of old Rising Main(600mm-1200mm dia) -11.50KM = 99.69	99.69 CR	AMRUT/State and ULB
8	NRW	Water supply zoning of service area (25 zone)	10.00 CR	State and ULB
9	NRW+ PER CAPITA SUPPLY OF WATER	Replacement of old lines (damaged, leaked, Defunged, choked, sluice valve etc) with house hold connection - old pipe line laid about 50-60 year ago. 348km@0.38cr/km	132.24 CR	AMRUT/State and ULB
10	REVENUE COLLECTION IMPROVEMENT	Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance the revenue collection 352850HH@Rs4000.00	141.14	State and ULB
	Total		743.00	

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.

QUESTION: Has all stakeholders involved in the consultation?

Yes, all stakeholders is being involved in the consultation, ELECTED MAYOR, ELECTED BOARD MEMBER, CITIZEN.

QUESTION: Has ward/ zone level consultations held in the city?

Yes, ward consultations is being held in the city by Nagar NIGAM AGRA has conducted at various levels ON AMRUT YOGANA, SBM.

QUESTION: Has alternative proposed above are crowd sourced?

Yes, the alternatives proposed above are crowd sourced. NAGAR NIGAM AGRA invited the suggestion of consultation through newspaper, mass media.

QUESTION: What is feedback on the suggested alternatives and innovations?

Yes, Feedback on the suggested alternatives and innovations are being considered.

QUESTION: Has alternative taken up for discussions are prioritized on the basis of consultations?

Yes, alternatives taken up for discussions are prioritized on the basis of consultation

QUESTION: What methodology adopted for prioritizing the alternatives?

Through departmental and public consultation.

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 in not more than 200 words.

QUESTION: What are sources of funds?

GOI, State Govt. & ULB. AMRUT

QUESTION: Has projects been converged with other program and schemes?

Not covered in ongoing project

QUESTION: Has projects been prioritized based on “more with less” approach?

YES

QUESTION: Has the universal coverage approach indicated in AMRUT guidelines followed for prioritization of activities?

Yes our priority is to firstly increase coverage with minimum cost ,then household level connections followed by laying of branching and sub branching .

6. Conditionalties

Describe in not more than 300 words the Conditionalties of each project in terms of availability of land, environmental obligation and clearances, required NOC, financial commitment, approval and permission needed to implement the project.

GOVERNMENT LAND OF NAGAR NIGAM AGRA IS AVAILABLE FOR CONSTRUCTION OF OHT & CWR . ANY CLEARANCE REQUIRED SHALL BE POSSESS BEFORE ISSUING THE LETTER OF INTENT.

7. Resilience

Required approvals will be sought from ULBs and competent authority and resilience factor would be built in to ensure environmentally sustainable water supply scheme. Describe in not more than 300 words regarding resilience built in the proposals.

YES. DISASTER AND ENVIRONMENTAL RELATED FACTOR WILL BE CONSIDERED WHILE PREPARATION OF DPRS

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 in not more than 250 words

QUESTION: How the proposed finance plan is structured for transforming and creating infrastructure projects?

As per the guidelines of the AMRUT, the structured plan of the project has been developed.

QUESTION: list of individual projects which is being financed by various stakeholders ?

There is no such individual project.

QUESTION: Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?

Yes, financial plan prepared for identified projects are based on financial convergence and consultation with funding partners.

QUESTION: Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations ?

Yes, the proposed financial structure is sustainable and project has been categorized based on financial considerations.

QUESTION: Have the financial assumptions been listed out ?

Yes, financial assumptions have been listed out

QUESTION: does financial plan for the complete life cycle of the prioritized development?

yes, financial plan has been done for the complete life cycle of the prioritized development

QUESTION: does financial plan include percentage share of different stakeholders (Centre, State, ULBs and)

Yes, financial plan include percentage share of different stakeholders (Centre, State and ULB)

QUESTION: does it include financial convergence with various ongoing projects.

Yes, it includes financial convergence with various ongoing projects

QUESTION: Does it provide year-wise milestones and outcomes ?

Yes, year-wise milestones and outcomes have been provided.

Details in financial plan shall be provided as per Table 1.7,1.8,1.9,1.10 and 1.11. These tables are based on AMRUT guidelines tables 2.1, 2.2, 2.3.1, 2.3.2, and 2.5.

Table 1.7 Master Plan of Water Supply Projects for Mission period
(As per Table 2.1of 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	Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses and leakages to reduce N.R.W and accountable for water 95824 H.Hx@ 50Rs /H.H	1	2015	2021	0.47CR
2	Providing house hold level connections to increase coverage (27263 H.H x Rs. 5000/- per connection)	2	2015	2017	13.63CR
3	Branching & sub branching distribution network to cover the house hold line near the premises 67824 H.H connections in uncovered pockets lying near the premises. B. NEW PIPE LINE 125 KM @ 0.2 CR=25.00CR	3	2016	2018	25.00 CR
4	Expansion of new distribution network with household (87026 HH) connection in uncovered pockets. Away from premises. 323km @0.38 cr Per km	4	2016	2018	122.74CR
5	1-New Over Head Tanks – 33.98 ML CAPACITY =50.97cr 2-NEW C.W.R.-10ML = 14.50cr 3-NEW RISING MAIN 100KM =109.61cr (300MM-900MM)	5	2016	2018	175.09CR

6	Augmentation of new water production systems 1- Renovation/Strengthening of existing OHT AND CWR = 15.00cr 2-REPLACEMENT OF OLD PUMPING PLANTS & Chlorinating plants at Existing CWR = 8.00cr	6	2016	2018	23.00 CR
7	Replacement of old Rising Main Including trenchless work (600mm-1200mm dia) -11.50KM = 99.68	7	2016	2017	99.69 CR
8	Water supply zoning of service area (25 zone	8	2016	2019	10
9	Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance the revenue collection 352850HH@.04cr	9	2016	2019	141.14 CR
10	Replacement of old lines (damaged, leaked, Defunged, choked, sluice valve etc) with house hold connection - old pipe line laid about 50-60 year ago. 348km@0.38cr/km)		2016	2019	132.24 CR
Total					743.00 CR

Table 1.8 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 (Cr)
			Indicator	Existing (As-Is)	After (To-be)	
1	Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses and leakages to reduce N.R.W and accountable for water 95824 H.Hx@ 50Rs /H.H	IEC	Coverage of house hold water connections	48%	60%	0.47CR
2	Providing house hold level connections to increase coverage (27263 H.H x Rs. 5000/- per connection)	HH connection	Coverage of House hold water connections	48%	60%	13.63CR
3	Branching & sub branching distribution network to cover the house hold line near the premises 67824 H.H connections in uncovered pockets lying near the premises. C. NEW PIPE LINE 125 KM @ 0.2 CR=25.00CR	Pipe line	Coverage of water supply connections	48%	85%	25.00 CR
4	Expansion of new distribution network with household (87026 HH) connection in uncovered pockets. Away from premises.	NEW Pipe line	Coverage of water supply connections	48%	100%	122.74CR
5	1-New Over Head Tanks – 33.99 ML CAPACITY =50.97cr 2-NEW C.W.R.-10ML = 14.50cr 3-NEW RISING MAIN 100KM (300MM-900MM) =109.61cr	RESERVOIR/ RISING MAIN	Per capita supply of water	176 LPCD	135 LPCD	175.09CR

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost (Cr)
			Indicator	Existing (As-Is)	After (To-be)	
6	Augmentation of new water production systems 1- Renovation/Strengthening of existing OHT AND CWR = 15.00cr 2-REPLACEMENT OF OLD PUMPING PLANTS & Chlorinating plants at Existing CWR = 8.00cr	Augmentation	Per capita supply of water,	176 LPCD	135 LPCD	23.00 CR
7	Replacement of old Rising Main Including trenchless work (600mm-1200mm dia) -11.50KM = 99.68	Replacement of old Rising Main	Per capita supply of water ,coverage	176 LPCD	135 LPCD	99.69 CR
8	Water supply zoning of service area (25 zone)		NRW	40% N.R.W	20% N.R.W	10.00 CR
9	Replacement of old lines (damaged, leaked, Defunged, chocked, sluice valve etc) with house hold connection - old pipe line laid about 50-60 year ago. 348km@0.38cr/km	NEW Pipe line (Replacement)	NRW+ Per capita supply of water	-	-	132.24 CR
10	Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance the revenue collection 352850HH@.04cr		NRW	40% N.R.W	20% N.R.W	141.14 CR
Total						743.00 CR

Table1.9 Annual Fund Sharing Pattern for Water Supply Projects

(As per Table 2.3.1of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				Total
			GOI 33%	State67%	ULB	Others	
1	Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses and leakages to reduce N.R.W and accountable for water 95824 H.Hx@ 50Rs /H.H	0.47CR	0.16	0.31		--	0.47CR
2	Providing house hold level connections to increase coverage 27263 H.H x Rs. 5000/- per connection)	13.63CR	4.50	9.13		--	13.63CR
3	Branching & sub branching distribution network to cover the house hold line near the premises 67824 H.H connections in uncovered pockets lying near the premises.	25.00 CR	8.25	16.75		--	25.00 CR
4	Expansion of new distribution network with household (87026 HH) connection in uncovered pockets. Away from premises. (323km) @0.38 cr Per km	122.74CR	40.50	82.24		--	122.74CR
5	1- New Over Head Tanks – 33.98 ML CAPACITY =50.97cr 2- NEW C.W.R.-10ML = 14.50cr 3- NEW RISING MAIN 100KM (300MM-900MM) =109.62cr	175.09CR	57.58	117.31		--	175.09CR

Sr.	Project	Gol	S	UB	Conv	Others	Total
6	Augmentation of new water production systems 1- Renovation/Strengthening of existing OHT AND CWR = 15.00cr 2-REPLACEMENT OF OLD PUMPING PLANTS & chlorinating plants at Existing CWR = 8.00cr	23.00 CR	7.59	15.41		--	23.00 CR
7	Replacement of old Rising Main(600mm-1200mm dia) -11.50KM = 99.69	99.69 CR	32.90	66.79		--	99.69 CR
8	Water supply zoning of service area (25 zone)	10.00 CR	3.30	6.7		--	10.00 CR
9	Replacement of old lines (damaged, leaked, Defunged, choked, sluice valve etc) with house hold connection - old pipe line laid	132.24 CR	43.64	88.60			132.24 CR
10	Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance	141.14 CR	46.58	94.56		--	141.14 CR
		743.00 Cr	245.19	497.81			743.00 Cr

Table 1.10 Annual Fund Sharing Break-up for Water Supply Projects

No.			4 th FC	Others	Total	14 th FC	Others	Total		
1	Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses and leakages to reduce N.R.W and accountable for water 95824 H.Hx@ 50Rs /H.H	0.47CR		--	--	--	--	--	--	--
2	Providing house hold level connections to increase coverage (27263 H.H x Rs. 5000/- per connection)	13.63CR		--	--	--	--	--	--	--
3	Branching & sub branching distribution network to cover the house hold line near the premises 67824 H.H connections in uncovered pockets lying near the premises. E. NEW PIPE LINE 125 KM @ 0.2 CR=25.00CR	25.00 CR		1		--	--	--	--	--
4	Expansion of new distribution network with household (87026 HH) connection in uncovered pockets. Away from premises. (323km) @0.38 cr Per km	122.74CR		2.5		--	--	--	--	--
5	4- New Over Head Tanks – 33.98 ML CAPACITY =50.97cr	175.09CR		0.60		--	--	--	--	--
6	<u>Augmentation of new water production systems</u> 1- Renovation/Strengthening of existing OHT AND CWR = 15.00cr	23.00 CR		0.875		--	--	--	--	--

7	Replacement of old Rising Main(600mm-1200mm dia) -11.50KM = 99.69	99.69 CR	0.45							0.90 CR
8	Water supply zoning of service area (25 zone)	10.00 CR	0.175			--	--	--	--	
9	Replacement of old lines (damaged, leaked, Defunged, choked, sluice valve etc) with house hold connection - old pipe line laid about 50-60 year ago.	132.24 CR	3			--	--	--	--	
10	Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance the	141.14 CR	0.5							
		743.00 Cr								

Proposed Projects	Project Cost	Indicator	Baseline	Annual Targets (Increment from the Baseline Value)						
				FY 2016		FY 2017	FY 2018	FY 2019	FY 2020	
				H1	H2					
Water Supply										
Public awareness campaign to increase house hold connections IEC activity, for regularisation of illegal connections and study for identification and assessment of losses	0.47CR	Coverage of house hold water connections	48%		60%	70%	85	100	-	

Providing house hold level connections to increase coverage (27263 H.H x Rs. 5000/- Branching & sub branching distribution network to cover the house hold line near the premises	13.63CR	Coverage of House hold water connections	48%	--	60	70	85	100	
67824 H.H connections in uncovered pockets lying	25.00 CR	Coverage of water supply connections	48%	--		70	85	100	
Expansion of new distribution network with household (87026 HH) connection in uncovered pockets. Away from premises. (323km) @0.38 cr	122.74CR	Coverage of water supply connections	48%	--	50	70	85	100	
7- New Over Head Tanks – 33.98 ML CAPACITY =50.97cr	175.09CR	Per capita supply of water,	176 LPCD	--	-	-	135		
8- NEW C W R -10MI = 14.50cr									
<u>Augmentation of new water production systems</u> 1- Renovation/Strengthening of	23.00 CR	Per capita supply of water,	176 LPCD		-	-	135		
Replacement of old Rising Main(600mm-1200mm dia) -11.50KM = 99.69	99.69 CR	Per capita supply of water,	176 LPCD	--	-	-	135		
Water supply zoning of service area (25 zone)	10.00 CR	NRW	40%	--	30%	25	20		

<p>Replacement of old lines (damaged, leaked, Defunged, choked, sluice valve etc) with house hold connection - old pipe line laid about 50-60 year ago. 348km@0.38cr/km</p>	<p>132.24 CR</p>	<p>NRW+ Per capita supply of water</p>	<p>40%</p>	<p>--</p>	<p>30</p>	<p>25</p>	<p>20</p>		
<p>Atomisation/computerisation of Metering system and installation of new water meters for optimization of use of water and enhance the revenue collection 352850HH@.04cr</p>	<p>141.14 CR</p>	<p>NRW</p>	<p>40%</p>	<p>--</p>	<p>30%</p>	<p>25</p>	<p>20</p>		
	<p>743 Cr</p>								

Table 1.11 Year wise Plan for Service Levels Improvements
(As per Table 2.5 of AMRUT guidelines)

Sewerage and Septage Management

1. Assess the Service Level Gap

The first step is to assess the existing situation and service levels gaps for Sewerage (AMRUT Guidelines; para 3 & 6). This will also include existing institutional framework for the sector. For this City has to review all policy, plans, scheme documents etc. to identify service level gaps and hold discussions with officials and citizens. AMRUT is focused on improvement in service levels. The zone wise data shall be used in identifying the gaps. These zone-wise gaps will be added to arrive at city level service gaps. While assessing service level gap reply following questions not more than word indicated against each question.

Question: What kind of baseline information is available for sewerage system of the city? Detail out the data, information, plans, reports etc related to sewerage available with city? Is zone wise information available? Have you correlated your data with census 2011 data? (100 words)

**Master Plan of Agra is with Regulatory authority, There is no DPR of sewerage
YES. DATA OF CENSUS 2011 IS AVAILABLE WITH NAGAR NIGAM AGRA.**

Area Name	Source Of Information	Availability of Latrine	Total number of households	Latrine available	Latrine not available
(NPP)	As per census 2011 available	Total Population 2011 = 15,74,542			
		Total number of households	240,831	212752	28079
		Within premises	186465	175938	10527
		Near premises	42991	29801	13190
		Away	11375	7013	4362
	Departmental Survey Data Of NPP		2,40,831	2,12,752	28079

What are existing service levels for sewerage for coverage of sewerage network services, efficiency of collection of sewerage and efficiency in treatment. Provide information in table

Table 2.1 : Status of sewerage network and Service Levels

Sr. No.	Indicators	Existing Service Level	MOUD Benchmark	Reliability
1	Coverage of latrines (individual or community) 212752HH/240,831HH	88%	100%	D
2	Coverage of sewerage network services 97748HH/240831HH	40.58 %	100%	D
3	Efficiency of collection of sewerage 148 MLD/222 MLD	66.66%	100%	D
4	Efficiency in Treatment: Adequacy of sewerage treatment capacity 129 MLD/180 MLD	71.66%	100%	D

Question:What is the gap in these service levels with regard to benchmarks prescribed by MoUD? (75 words)

1. Gap in coverage of latrines (individual or community)= 12% =
2. Gap in Coverage of sewerage network services= 59.42%
3. Gap in Efficiency of collection of sewerage=33.44%
4. Gap in Efficiency in Treatment: Adequacy of sewerage treatment capacity=28.44%

Question:Does city has separate drainage system or sewer lines take care of storm water? (50 words)

City has separate drainage and sewerage system but there is intermixing between drains and sewers.

Coverage of latrines (individual or community), Please provide information in Table 2.2 A

Zone	Total number of HH a	Total number of HH with individual or community toilets within walking distance b	Coverage of latrines (%), (b/a)*100%
Western	58625	52962	90.34%
Central	70397	65403	92.91%
Eastern	22264	18924	85%
Northern	33830	30785	91%
Tajganj	19855	15991	80.54%
Southern-II	22912	18329	80%
Southern-III	12948	10358	80%
Total	240831 HH	212752 HH	88%

SEWERAGE NETWORK AND COLLECTION OF SEWERAGE

Question: How much of the area of the city is covered by sewerage network? What is the status of household connections in each zone? What are the areas covered under septage? Provide information in Table

Table: Zone/Ward Wise Coverage of Households

There is 5% sewerage network in the city.91.12% household have septic tank.

Zone	Total No. of Households(HH) a	Households with Sewerage Network b	Coverage of sewerage network services (b/a)*100%
Western	58625	31037	35.88%
Central	70397	38084	54.09%
Eastern	22264	0	0%
Northern	33830	21372	61.17%
Tajganj	19855	4964	25%
Southern-II	22912	2291	10%

Zone	Total No. of Households(HH) a	Households with Sewerage Network b	Coverage of sewerage network services (b/a)*100%
Southern-III	12948	0	0%
Total	240831 HH	97748 HH	40.58%

Question: Are there any areas where sewer lines have been laid but still households are not connected to sewer lines? Are there any areas where toilets may be connected to sewer lines but kitchen or bathroom waste are not connected to sewerage system? (75 words)

Yes, There are some areas where sewer lines have been laid but still houses are not connected to sewer lines and also there are some areas where toilets may be connected to sewer lines but kitchen and bathroom waste is not connected to sewerage system.

Question: Is there any systematic and organized method to collect and treat waste from septic tanks? What is the duration of cleaning of septic tanks (monthly, quarterly, semiannually or annually)? Indicate status of overflows of septic tanks, either in the nearby drains /open fields/ sewerage lines etc? (75 words)

Nagar Nigam Agra provides the facility of cleaning septic tank on payment basis after getting demand from household. And this sludge connected from septic tank is disposed off in nearby sewer.

Question: What is the situation of O&M of the existing sewerage system? Does the city has routine maintenance system or breakdown maintenance system? What is the duration of cleaning of sewer lines (monthly, quarterly, semiannually or annually)? Indicate infrastructure available for O&M of the sewerage system i.e sewer jetting machines etc? (100 words)

Sewerage system is maintained by Nagar Nigam Agra on routine basis. Sewer lines are cleaned annually as well as when it is required. Heavy Sewage maintenance done at the time of breakdown. Nagar Nigam Agra has 5 Sewer Jetting Machine, Pumps sets.

SEWAGE TREATMENT SYSTEM

Question: Does city has Sewage Treatment Plant (STP)? Which areas are covered under each of the STPs? Provide details in Table 2.3

Table 2.3: Status of Existing's STPS

Sr. No.	Location	Capacity (MLD)	Inflow in the STP (MLD)	Efficiency in %
1	Bichpuri	40	10	25
2	Jaganpur	14	13	93
3	Nagla Boodi	2.25	1	44
4	Deori Road	12	8	75
5	Dhandhu pura	78	68	87
6	Dhandhu pura 2	24	19	79
7	Peela Khar	10	10	100
	Total	180.25 MLD	129 MLD	72 MLD

Question: Does decentralized waste treatment system exist or planned in the city? If yes, provide details (75 words)

Yes, City has decentralized waste treatment system.

Question: How much of sewerage is generated in the city? How much of this sewerage generated reaches the STPs? What is the Biological Oxygen Demand (BOD) of incoming and outgoing sewage of each STP? (100 words)

Present sewage generation of Agra town is about 222 MLD out of which 148 MLD is reaching to STP. The BOD of influent and effluent is as below -

Sr. No.	Location	Capacity	B.O.D. (Influent)	B.O.D. (effluent)
1	Bichpuri	40 MLD	161 mg/l	29.23
2	Jaganpur	14 MLD	203 mg/l	28.52
3	Nagla Boodi	2.25 MLD	188 mg/l	29.67
4	Deori Road	12 MLD	163 mg/l	28.48
5	Dhandhu pura	78 MLD	190 mg/l	29.90
6	Dhandhu pura 2	24 MLD	181 mg/l	27.97
7	Peela Khar	10 MLD	198 mg/l	29.65

Question: Is treated sewage being reused or recycled? Is treated water being used for irrigation or industrial purpose? Does the option of power generation being explored? (75 words)

Treated sewage is not being recycled. The treated sewage is used for irrigation purpose in nearby fields.

INSTITUTIONAL FRAMEWORK

Question: Define role and responsibilities in terms of O&M, policy planning, funding, service provision in table

Table: 2.4: Functions, roles, and responsibilities

Planning and Design	Construction/ Implementation	O&M
UP Jal Nigam	UP Jal Nigam	Agra Nagar Nigam

Question: Please also detail that how city is planning to execute projects. Shall the implementation of project be done by Municipal Corporation or any parastatal body? (75 words)

In Nagar Nigam area U.P. Jal Nigam will execute the projects and Nagar Nigam will implement the projects.

2. Bridge the Gap

Once the gap between the existing Service Levels is computed, based on initiatives undertaken in different ongoing programs and projects, objectives will be developed to bridge the gaps to achieve universal coverage. (AMRUT Guidelines; para 6.2 & 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of assessment and meeting the opportunity to bridge the gap.

Question: List out initiatives undertaken in different ongoing programs and projects to address these gaps. For this provide details of ongoing projects being carried out for sewerage system under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table

Table: Status of Ongoing/ Sanctioned

S.No.	Name of Project	Scheme Name	Cost in Rs Crore	Month of Completion	Status (as on DD MM 2015)
01	There is no ongoing project in the city.	-	-	-	-

Question: How much the existing system will able to address the existing gap in sewerage system? Will completion of above will improve the coverage of network and collection efficiency? If yes, how much. (100 words)

The existing system is not able to handle entire sewer of the city.

Question: Does the city require additional infrastructure to improve the services? What kind of services will be required to fulfill the gap?

Yes. Sewerage system including pumping stations and sewage treatment plants are required to address entire town sewage problem.

Question: How does the city visualize to take the challenge to rejuvenate the projects by changing their orientation, away from expensive asset replacement programs, to focusing on optimum use of existing assets?

Nagar Nigam visualizes for management of sewerage by construction of individual and community toilets and connection of sewage through sewer lines & treatment through STP.

Provide information in Table 2.6

Table 2.6: Demand Gap Assessment

Component	2015			2021	
	Existing	Ongoing projects	Total	Demand	Gap
Sewerage network (km)	470 KM	Nil	470 KM	1175 KM	705 KM
No of Households covered under sewerage system	97748 HH	Nil	97748 HH	392000 HH	294252 HH
Sewerage Treatment Plant (MLD)	180.25 MLD	Nil	180.25 MLD	195 MLD(2021 POP= 18,10,723X 108=	14.75 MLD

OBJECTIVES

Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2021 for sewerage network, number of household to be provided with connections, and required enhancement in capacity of STP (MLD), area to be covered under septage management. Based on the demand and gap assessment, evolve objectives to achieve bridging these gap.

Question: Does each identified objectives will be evolved from the outcome of assessment?

Yes,

The main objective of ANN is:-

- 1 IEC to promote 294252 HH from existing/Proposed sewer line.**
- 2.Rehabilitation and replacement of existing sewer line of 80 KM**
- 3. Separation of drainage and sewerage system (LS).**
- 4..Purchasing of sewer suction and jetting machine 10 Nos. 5 cubic meter each.**
- 5.Installation of sewer network of 705 KM.**
- 6-To provide 294252 HH connections from sewer line.(392000-97748=294252)**
- 7- Construction of individual - (28079 No.) & community -(778 No,) latrines by SBM**
- 8-Construction of STP(41.75 MLD),**

Question: Does each objective meet the opportunity to bridge the gap?

Yes.

3. EXAMINE ALTERNATIVES AND ESTIMATE COST

The objective will lead to explore and examine viable alternatives options available to address these gaps. These will include out of box approaches. (AMRUT Guidelines; Para 6.4 & 6.8 & 6.9). This will also include review of smart solutions. The cost estimate with broad source of funding will be explored for each alternative. While identifying the possible activities, also examine the ongoing scheme and its solutions including status of completion, coverage and improvement in O&M. Please reply following questions in not more than 200 words.

Question: What are the possible activities and source of funding for meeting out the objectives?

Table S. IEC for preventing the open defecation. : 0.75 Cr. SBM

- 2- Construction of individual & community latrines. : 75.00 Cr. SBM
- 3- Agra Sewerage Ph-1 Pt-1 :687.00 Cr. AMRUT
- 4- Agra Sewerage Ph-2 Pt-2 :735.00 Cr. AMRUT
- 5- Agra Sewerage Ph-2 Pt-3 :725.00 Cr. AMRUT
- 6- Agra Sewerage {I & D works} : 410.00 Cr. AMRUT
- 7.. Purchasing of sewer suction and jetting machine 10 Nos. 5 cubic meter each.: 5.00 Cr. AMRUT**
- 8- To provide 294252 HH connections from sewer line. : 294.25 Cr. AMRUT**
- 9- Rehabilitation and replacement of existing sewer line of 80 KM. : 80.00 Cr. AMRUT**
- 10. Separation of drainage and sewerage system (LS). : 10.00 Cr.**

Question: How can the activities be converged with other programmes like JICA/ ADB funded projects in the city etc?

There are no ongoing project under JICA/ADB

Question: What are the options of completing the ongoing activities?

There is no ongoing activities.

Question: How to address the bottlenecks in the existing project and lessons learnt during implementation of these projects?

There is no ongoing Project.

Question: Has projects includes O&M of sewerage system?

Yes, 5 yrs. O&M cost shall be provided in DPR.

Question: What measures may be adopted to recover the O&M costs? Can the option of sale of treated wastewater be applicable to recover the O&M cost.

No other option is available.

Question: What are innovative alternative solutions explored in achieving objectives?

No other such option is available.

Question: Are different options of PPP such as Design-build-Operate-Transfer (DBOT), Design Built Finance Operate and Transfer (DBFOT) are considered?

Yes it will be explored during preparation of DPR.

Question: How the recycle and reuse of water will be done? How much quantity of treated water may be reused?

50% Treated effluent shall be reused for irrigation and horticulture purpose.

Question: Have you analyzed best practices and innovative solutions in sewerage sector? Is any of the practice be replicated in the city?

Traditional/Conventional sewerage system and modern STP Plant shall be provide.

Question: Have you identified the areas for decentralized waste treatment system? Explore the approaches for septage management i.e. People Public Private Partnership (PPPP) model or replacing septic tanks by bio-digesters, bioremediation etc.

Yes, public only want cost effective solutions to manage their sewage/ waste water. They are not ready to invest much money in infrastructure line bio digesters bio remediation carrying their sewer and waste water through sewerage system and treated through STPs is the only cost effective and most feasible system for them.

The alternative activities to meet these activities be defined as per Table 2.7
Table 2.7 Alternative Activities To Meet Objectives

SL No.	Objective	Activities	Financing Source
1	IEC for preventing the open deification	Survey	SBM

SL No.	Objective	Activities	Financing Source
2	Construction of individual 28079 No. & community latrines 778 No.	Construction of Toilets	SBM
3	Waste collection and transportation	Laying of Sewer line	AMRUT
4	Treatment of waste Water	Construction of STP	AMRUT
5	Purchasing of sewer suction and jetting machine 10 Nos. 5 cubic meter each.	Procurement	AMRUT
6	To provide 294252 HH connections from sewer line.	Construction	AMRUT
7	Rehabilitation and replacement of existing sewer line of 80 KM.	Construction	AMRUT
8	Separation of drainage and sewerage system (LS).	Construction	AMRUT

Table S. Citizen Engagement

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 reply following questions in not more than 200 words.

Question: Has all stakeholders involved in the consultation?

Yes, All stakeholders involve in the consultation on 17 October, 2015.

Question: Has ward/ zone level consultations held in the city?

Yes, ward/ zone level consultations has held under the chairmanship of ward members on 25 October, 2015.

Question: Has alternative proposed above are crowd sourced?

Yes, Suggestions and views of the crowd are taken into consideration.

Question: What is feedback on the suggested alternatives and innovations?

Crowd agreed with the alternatives suggestions.

Question: Has alternative taken up for discussions are prioritized on the basis of consultations?

Yes,

Question: What methodology adopted for prioritizing the alternatives?

On importance wise after consultation made in nagar nigam agra meetings firstly Construction of individual & community latrines & transportation and treatment of septege waste.

Table S. 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 in not more than 200 words.

Question: What are sources of funds?

The source of funding of activities shall be: 1. AMRUT, 2 SBM

Question: Has projects been converged with other program and schemes?

Yes, IEC & Construction of individual and community latrines converge with SBM.

Question: Has projects been prioritized based on “more with less” approach?

Yes the projects are being prioritized based on “more with less” approach universal coverage through IEC activities.

Question: Has the universal coverage approach indicated in AMRUT guidelines followed for prioritization of activities?

Yes, universal coverage approach indicated in AMRUT guidelines followed for prioritization of activities.

Table S. Conditionalities

Describe the Conditionalities of each project in terms of availability of land, environmental obligation and clearances, required NOC, financial commitment, approval and permission needed to implement the project. Please reply following questions in not more than 100 words.

Yes, No land dispute in transportation and treatment of sewer line.

7. Resilience

Required approvals will be sought from competent authority and organizations. The resilience factor would be built in to ensure environmentally sustainable sewerage scheme. Please reply following questions in not more than 100 words.

Yes. Disaster and environmental related factor will be considered while preparation of DPRs

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 in not more than 200 words

Question: Does financial plan for the complete life cycle of the prioritized development?

As per the guidelines of the AMRUT, the structured plan of the project will be developed. In which 50% from GOI and remaining by state and ULB .

Question: Does financial plan include percentage share of different stakeholders (Centre, State, ULBs and)

Sewer & Sanitation scheme financed by GOI & State Government project will be financed as per AMRUT guidelines.

Question: Does it include financial convergence with various ongoing projects.

Yes, financial plan prepared for identified projects are based on financial convergence and consultation with funding partners.GOI, STATE& ULB.

Question: Does it provide year-wise milestones and outcomes?

Yes.

DETAILS IN FINANCIAL PLAN SHALL BE PROVIDED AS PER TABLE 8.1, 8.2, 8.3, 8.4 AND 8.5. THESE TABLES ARE BASED ON AMRUT GUIDELINES TABLES 2.1, 2.2, 2.3.1, 2.3.2, AND 2.5.

Table 8.1 Master Plan of Sewerage Projects for Mission Period
(As per Table 2.1 of AMRUT guidelines)

(Amount in Rs. Cr)

S.No	Project Name	Priority number	Year in which to be implemented	Year in which to be completed	Estimated Cost
1.	To provide 28079 HH connections from sewer line.28079 @ 15000	1	2016	2019	42.12 Cr.
2	Laying of Sewer line 705 KM incl. restoration of road @ 1.00 Cr.				705.00 Cr.
3	Laying of Rising Main 33KM @ 1.00 Cr.				33.00 Cr.
4	Rehabilitation and replacement of existing sewer line of 80 KM.				80.00 Cr.
5	Interception & diversion work (Nala Tapping & carriage to STP/MPS)	2	2016	2019	400.00 Cr.
6	Construction of SPS (13 No.) @ 5.00 Cr. /each				65.00 Cr.
	Purchasing of sewer suction and jetting machine 05 Nos. 5 cubic meter each. @ 0.5 Cr./each				2.50 Cr.
7	05 STP a) 20 MLD - 02 No. b) 14 MLD - 01 No. c) 24 MLD - 01 No. d) 16 MLD - 01 No. @ 1.50 Cr. / MLD	3	2016	2019	112.50 Cr.

Total				1440.12 Cr.
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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	<p>To provide 28079 HH connections from sewer line.28079 @ 15000</p> <p>Laying of Sewer line 705 KM incl. restoration of road @ 1.00 Cr.</p> <p>Laying of Rising Main 33KM @ 1.00 Cr.</p> <p>Rehabilitation and replacement of existing sewer line of 80 KM.</p>	<p>Universal Coverage through laying of pipe line & Replacement of Old damage sewerage Pipe line</p>	100%	40%	100%	860.12 Cr.

Sr. No.	Project Name	Physical Components	Change in Service Levels			Estimated Cost
			Indicator	Existing (As-Is)	After (To-be)	
2	<p>Interception & diversion work (Nala Tapping & carriage to STP/MPS)</p> <p>Construction of SPS (13 No.) @ 5.00 Cr. /each</p> <p>Purchasing of sewer suction and jetting machine 05 Nos. 5 cubic meter each. @ 0.5 Cr./each</p>	<p>Collection Efficiency by construction of STP, SPS, & Purchase of Sewerage Jetting Section matchin</p>	100%	66.6%	100%	467.50 Cr.
3	<p>05 STP</p> <p>a) 20 MLD – 02 No. b) 14 MLD – 01 No. c) 24 MLD – 01 No. d) 16 MLD – 01 No. @ 1.50 Cr. / MLD</p>	<p>Treatment facility by construction of STPs</p>	100%	72%	100%	112.50 Cr.
Total						1440.12 Cr.

ANNUAL FUND SHARING PATTERN FOR SEWERAGE PROJECTS

(As per Table 2.3.1 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				
			GOI	State	ULB	Others	Total
1	<p>To provide 28079 HH connections from sewer line.28079 @ 15000</p> <p>Laying of Sewer line 705 KM incl. restoration of road @ 1.00 Cr.</p> <p>Laying of Rising Main 33KM @ 1.00 Cr.</p> <p>Rehabilitation and replacement of existing sewer line of 80 KM.</p>	860.12 Cr.	283.83 Cr.	576.29 Cr.	-	-	860.12 Cr.
2	<p>Interception & diversion work (Nala Tapping & carriage to STP/MPS)</p> <p>Construction of SPS (13 No.) @ 5.00 Cr. /each</p> <p>Purchasing of sewer suction and jetting machine 05 Nos. 5 cubic meter each. @ 0.5 Cr./each</p>	467.50 Cr.	154.27 Cr.	313.22 Cr.	-	-	467.50 Cr.
3	<p>05 STP</p> <p>a) 20 MLD – 02 No.</p> <p>b) 14 MLD – 01 No.</p>	112.50 Cr.	37.12 Cr.	75.37 Cr.	-	-	112.50 Cr.

Sr. No.	Name of Project	Total Project Cost	Share				
			GOI	State	ULB	Others	Total
	c) 24 MLD - 01 No. d) 16 MLD - 01 No. @ 1.50 Cr. / MLD						
	Total	1440.12 Cr	475.22 Cr	964.88 Cr			1440.12 Cr

ANNUAL FUND SHARING BREAK-UP FOR SEWERAGE PROJECTS

(As per Table 2.3.2 of AMRUT guidelines)

Sr. No.	Project	GOI	State			ULB			Convergence	others	Total
			14th FC	Others	Total	14th FC	Others	Total			
1	To provide 28079 HH connections from sewer line.28079 @ 15000 Laying of Sewer line 705 KM incl. restoration of road @ 1.00 Cr. Laying of Rising Main 33KM @ 1.00 Cr. Rehabilitation and replacement of existing sewer line of 80 KM.	33%			67%					100%	

Sr. No.	Project	GOI	State			ULB			Conver-gence	others	Total
			14th FC	Others	Total	14th FC	Others	Total			
2	Interception & diversion work (Nala Tapping & carriage to STP/MPS) Construction of SPS (13 No.) @ 5.00 Cr. /each Purchasing of sewer suction and jetting machine 05 Nos. 5 cubic meter each. @ 0.5 Cr./each	33%			67%						100%
3	05 STP a) 20 MLD - 02 No. b) 14 MLD - 01 No. c) 24 MLD - 01 No. d) 16 MLD - 01 No. @ 1.50 Cr. / MLD	33%			67%						100%

YEAR WISE PLAN FOR SERVICE LEVELS IMPROVEMENTS

(As per Table 2.5 of AMRUT guidelines)

Objective	Proposed project	Project Cost	Indicator	Baseline	Annual Target (Increment from baseline value)					
					FY 2016-17		FY 2017-18	FY 2018-19	FY 2019-20	FY 2020
					H1	H2				
<p>To provide 28079 HH connections from sewer line. 28079 @ 15000</p> <p>Laying of Sewer line 705 KM incl. restoration of road @ 1.00 Cr.</p> <p>Laying of Rising Main 33KM @ 1.00 Cr.</p> <p>Rehabilitation and replacement of existing sewer line of 80 KM.</p>	<p>Universal Coverage through laying of pipe line & Replacement of Old damage sewerage Pipe line</p>	860.12 Cr.	100%	40%	60%	70%	85%	100%		
<p>Interception & diversion work (Nala Tapping & carriage to STP/MPS)</p> <p>Construction of SPS (13 No.) @ 5.00 Cr./each</p> <p>Purchasing of sewer suction and jetting machine 05 Nos. 5 cubic meter each. @ 0.5 Cr./each</p>	<p>Collection Efficiency by construction of STP, SPS, & Purchase of Sewerage Jetting Section machine</p>	467.50 Cr.	100%	66.6%	70%	80%	90%	100%		

Objective	Proposed project	Project Cost	Indicator	Baseline	Annual Target(Increment from baseline value)					
					FY 2016-17		FY 2017-18	FY2018-19	FY2019-20	FY 2020
					H1	H2				
05 STP a) 20 MLD - 02 No. b) 14 MLD - 01 No. c) 24 MLD - 01 No. d) 16 MLD - 01 No. @ 1.50 Cr. / MLD	Treatment facility by construction of STPs	112.50 Cr.	100%	72%	75%	80%	90%	100%		
		1440.12 Cr								