



# Water Prudence in Urban Greening in 72 ULBs in Telangana

Presented at:

Online Impact Workshop cum Master Class  
On Capacity building initiative for Citywide Water and  
Sanitation Management **29 June 2020**

Client



Consulting Organisation



**AFC INDIA LIMITED**

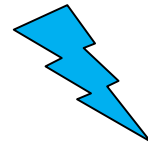
Technical Support Institution Committed to Rural Prosperity

Since 1968

ISO-9001:2008 CERTIFIED COMPANY

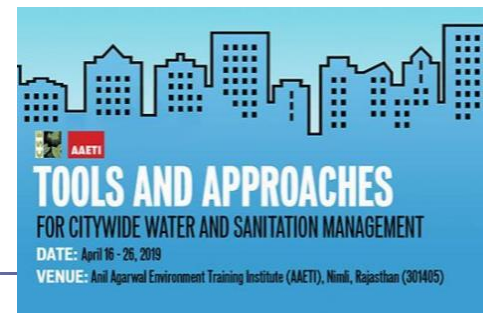


# PREMISE..... From Drinking water scarcity to Urban Greening



## TRAINING ATTENDED

Tools and Approaches for Citywide Water and Sanitation Management; Apr, 2019



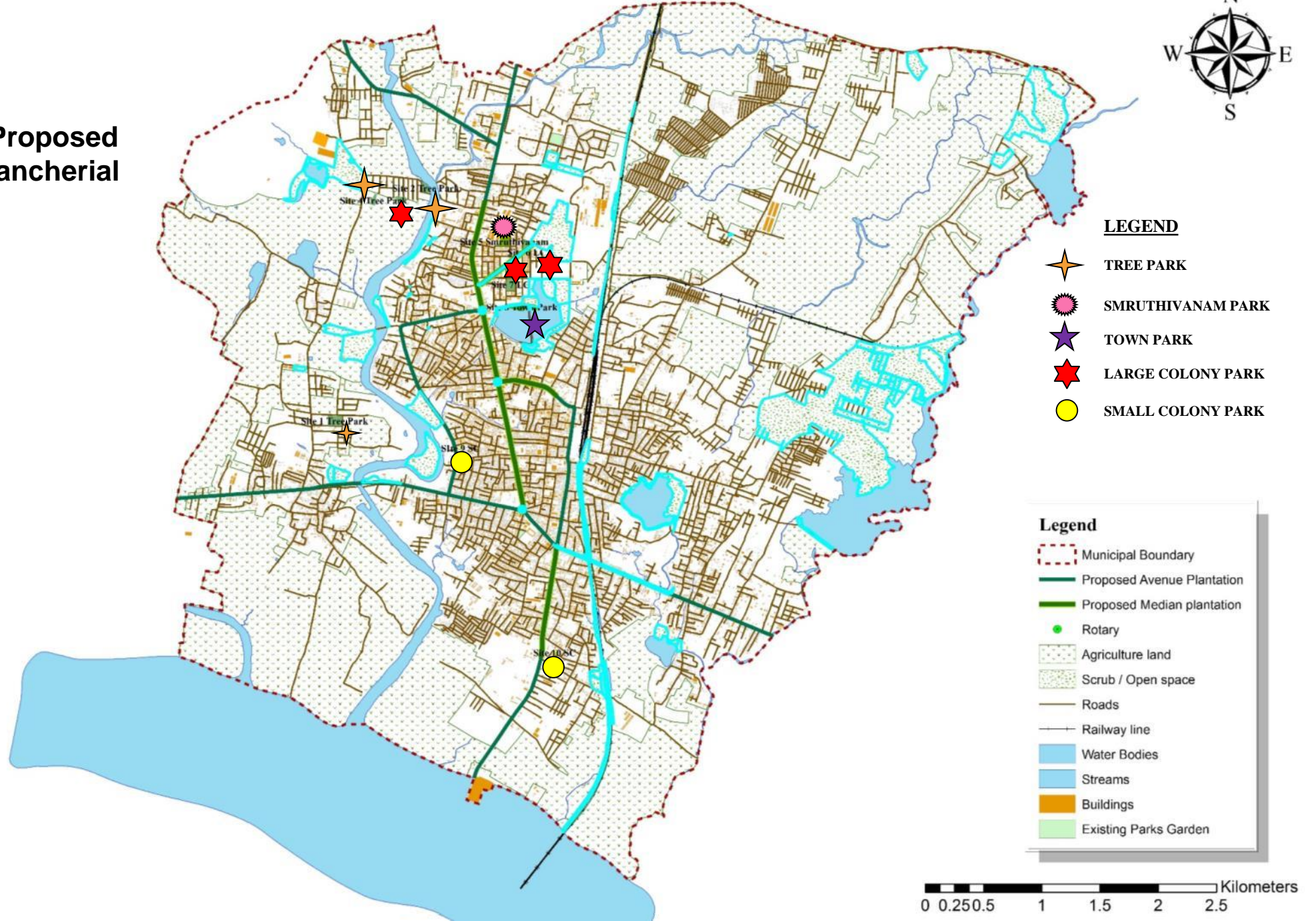
## PROJECT BRIEF... Key Numbers

- **Name of Project:** 'Preparation of DPR on Urban Green Environment Project in 72 ULBs of Telangana State' (As part of Telangana Municipal Development Project - TMDP)
- **Client:** Commissioner and Director- Municipal Administration (CDMA)
- **Funding Agency:** World Bank
- **Consulting Organization:** Agricultural Finance Corporation India Ltd in JV with Insight Development Consulting Group Pvt. Ltd. (AFC-IDCG)
- **Project Cost:** INR 338 Crores
- **No of ULBs:** 72
- **Key Numbers:** 6 million trees; 281 Kms of roadside plantation, 687 Parks spread across 305 Acres, 91 junctions development in 72 cities.
- **Timelines:** Feb 2018-Feb 2020 (Consulting); Feb 2020 – Dec 2020 (Execution Period).
- **Position Held:** Project Manager

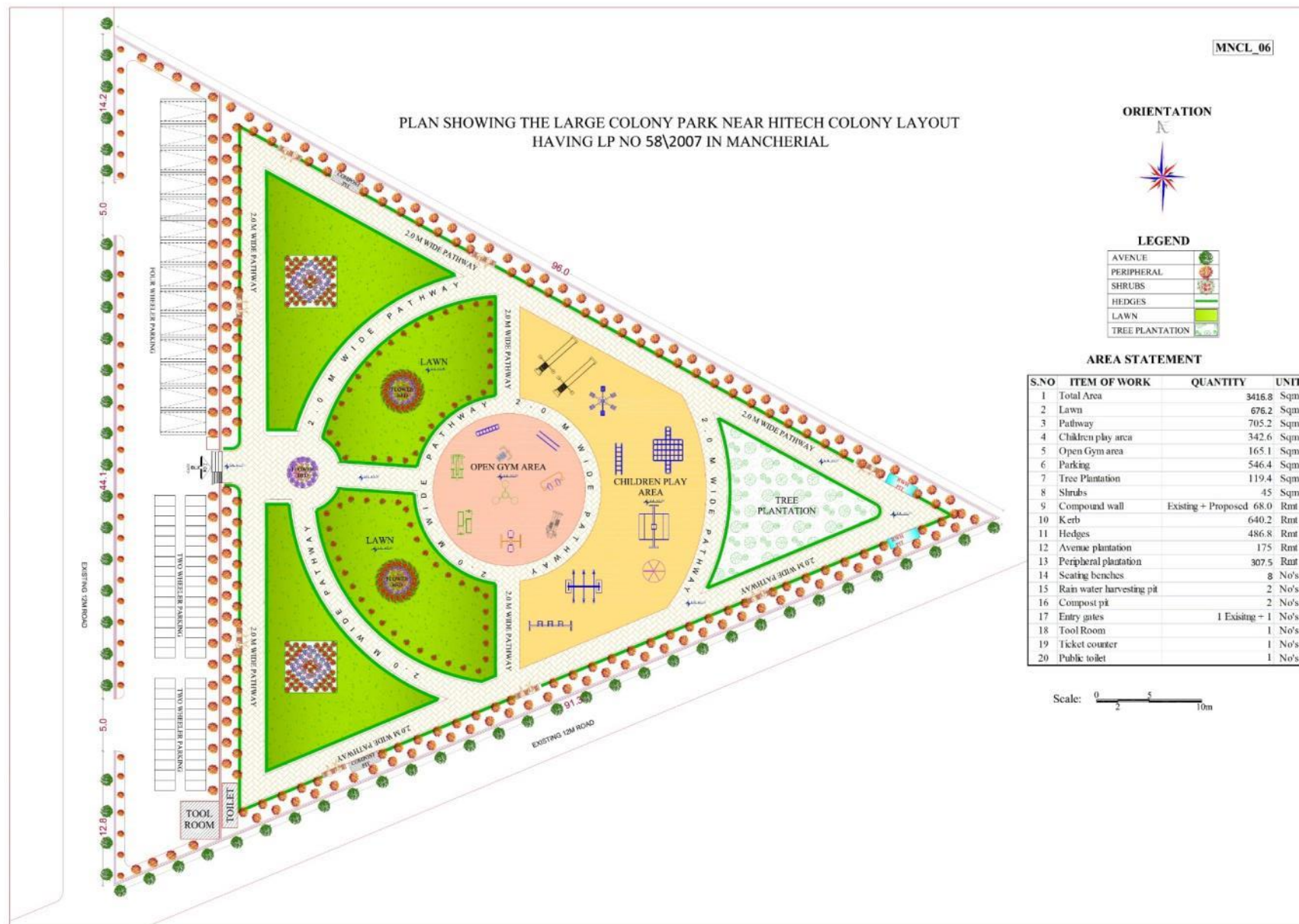
# MANCHERIAL



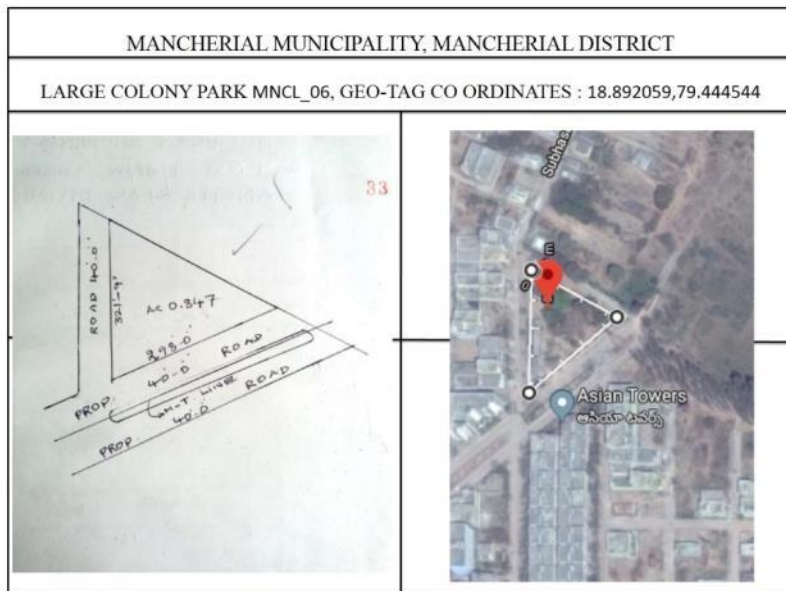
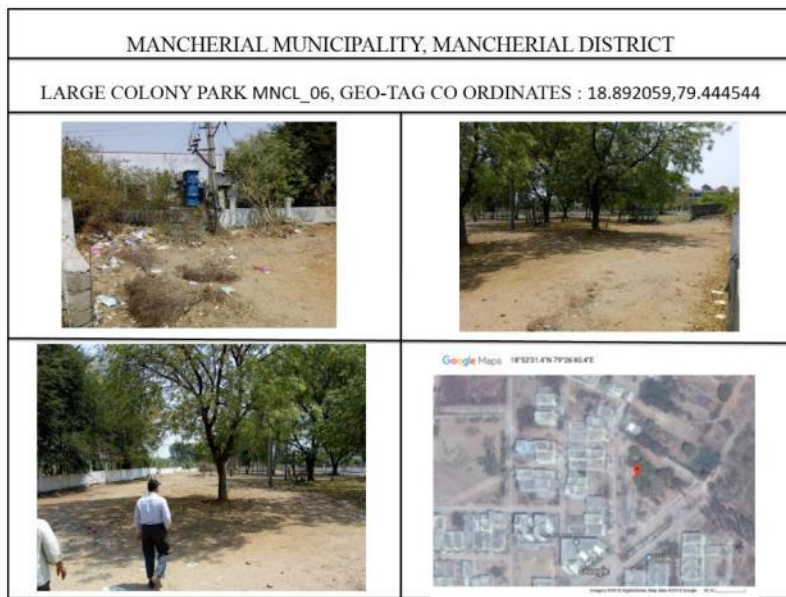
## Illustration of Parks Proposed Warangal Region - Mancherial



# Illustration of Parks Proposed Mancherial, MNCL\_06 – Large Colony Park



# Illustration of Parks Proposed Mancherial, MNCL\_06 – Large Colony Park



PROJECT		SUMMARY					
LOCATION		CONSTRUCTION OF LARGE COLONY PARK					
S.No.		MANCHERIAL MUNICIPALITY, MANCHERIAL DISTRICT, TELANGANA STATE					
	Description	Area	Units	Rate	Amount	Remarks	
PART-A (CIVIL)							
I	SITE CLEANING	6391.90	Sqm	2.00	12,784		
II	GRILL FENCE	86.50	Rmt	8,247.71	7,13,427		
III	CHAIN LINK FENCE	86.50	Rmt	1,738.21	1,50,355	Optional	
IV	COMPOUND WALL	86.50	Rmt	7,838.73	6,78,050	Optional	
V	ENTRY GATE (3 M x 2.1 M) & R.C.C COLUMNS	1.00	Nos	72,558.32	72,558		
VI	PATHWAY (RAMMED EARTH)	1550.30	Sqm	334.48	5,18,544	Optional	
VII	PATHWAY (WITH TILES)	1550.30	Sqm	1,127.95	17,48,660	Proposed	
VIII	KERB	1364.50	Rmt	365.99	4,99,398		
IX	CHILDREN PLAY AREA WITH EQUIPMENT'S	461.30	Sqm	LS	6,32,909		
X	SEATING BENCHES	10.00	Nos	4,500	45,000		
XI	RAIN WATER HARVESTING PIT ( 3M x 1M x 1M)	1.00	Nos	19,940.00	19,940		
XII	COMPOST PIT (3M x 1M x 1M)	1.00	Nos	16,161.00	16,161		
XIII	BORE WELL	30	M	2,352.43	70,573		
XIV	PLUMBING	485.25	M	LS	7,62,220		
XV	LIGHT POST (6 M Ht 72 watt light with 2 Arms)	20	Nos	10,000.00	2,00,000		
XVI	PARKING AREA	711	Sqm	334.48	2,37,949		
XVII	TOOLS ROOM (PORTABLE 12'x12'x8.6')	1	Nos	122,400.00	1,22,400		
XVIII	PUBLIC TOILET GENTS (PORTABLE 4'x5'x7')	1	Nos	45,000.00	45,000		
XIX	LADIES TOILET (PORTABLE 4'x5'x7')	1	Nos	45,000.00	45,000		
XX	PHYSICALLY HANDICAPPED TOILET (PORTABLE 5.6'x5'x7')	1	Nos	65,000.00	65,000		
XXI	TICKET COUNTER (PORTABLE 4'x4'x8')	1	Nos	35,000.00	35,000		
XXII	GAZEBO	1	Nos	150,000.00	1,50,000		
XXIII	YOGA SPOT	31.62	Sqm	1,651.70	52,227		
XXIV	OPEN AIR THEATRE	82.50	Sqm	4,410.88	3,63,898		
XXV	SEPTIC TANK (5M x 2M x 2M)	1.00	Nos	240,602.00	2,40,602		
XXVI	WIRING & INSTALLATION			LS	1,78,144		
	SUB-TOTAL (A)				63,28,850		
PART-B (HORTICULTURE)							
XXVII	HORTICULTURE				10,95,656		
XXVIII	LAWN MOVER	1	Nos	3,500.00	3,500		
	SUB-TOTAL (B)				10,99,156		
	GST ON WORK (12%)				7,59,462		
	PROVISION FOR LABOUR CESS (1.00%)				63,289		
	CONTENGENCIES (5%)				3,16,443		
	SUB-TOTAL ( C )				11,39,193		
	TOTAL COST (A+B+C)				85,67,199		
	SAY TOTAL COST IN GRORES				0.86		

PLAN SHOWING THE TOWN PARK HAVING LP NO : 96/96, SY NO: 139 & 140  
LOCATED OPP RAILWAY LINE , ADARSH NAGAR IN TANDUR MUNICIPALITY

TDR\_07



ROAD

**Existing features:**  
Centrally located in town  
Existing water body  
Dumping of Solid waste



# CSE IMPACT ON THE PROJECT... An introduction to the training programme

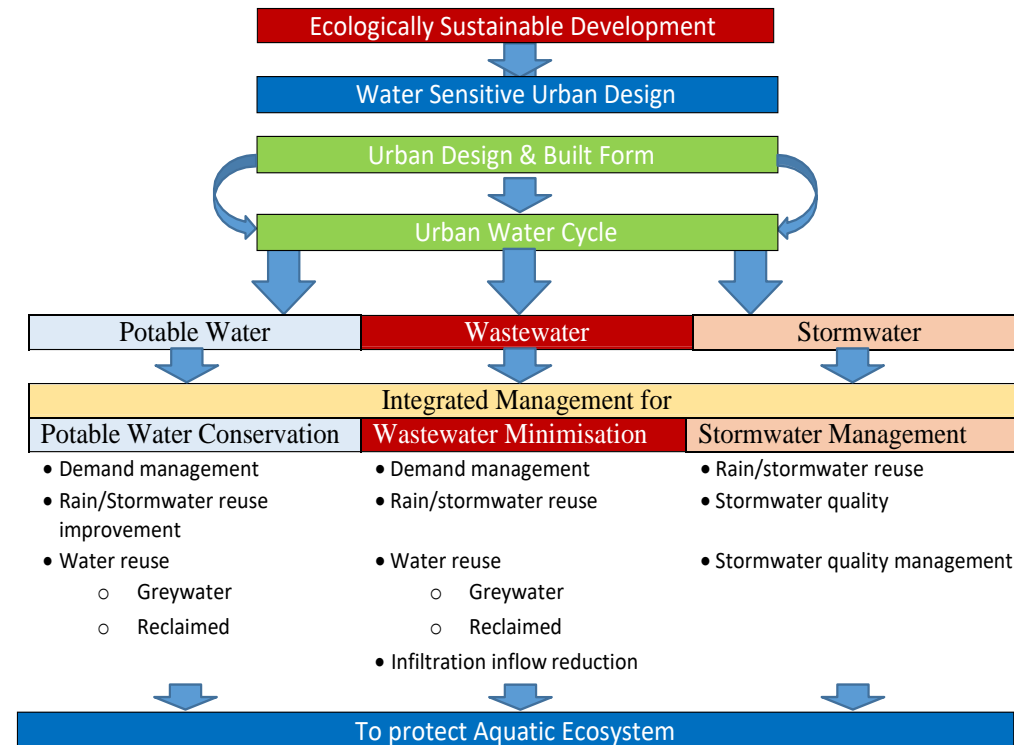
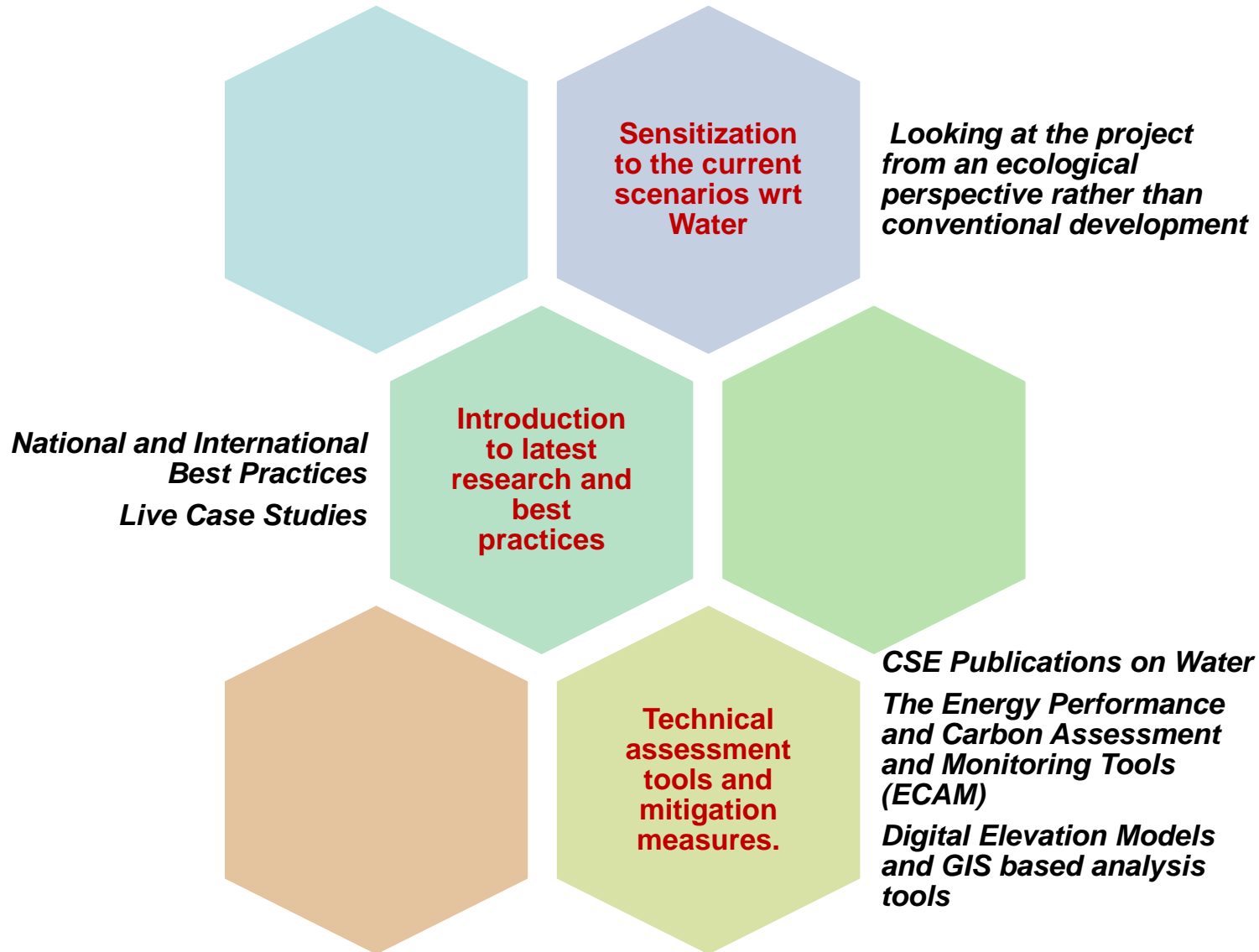


Figure 61 Planning Methods for Sustainable Management of greens





# CSE IMPACT ON THE PROJECT... Future Plans

## CURRENT PROFESSIONAL SCENARIO

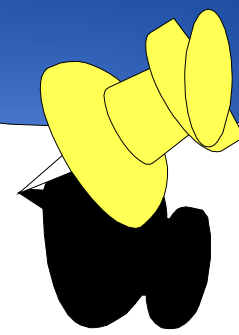
- Currently working on industrial township projects where we are working on **digital elevation models** to fine-tune water prudence on a district level.
- **Designed bio-retention basins** along first order streams and existing site depressions to **recharge groundwater**.
- With all these techniques we have been successfully able to **reduce the drainage demand and the cross sections of municipal drains**.

## FUTURE INTENT

- Constantly in lookout of opportunities wherein would be able to utilize some of the water prudence measures which CSE has been so kind to train us.
- Expect to carry this momentum forward with greater vigor.



Thank You



You can't manage  
what you don't  
understand.

You don't  
understand what you  
don't measure.

What gets measured  
gets done.

What gets measured  
gets rewarded.