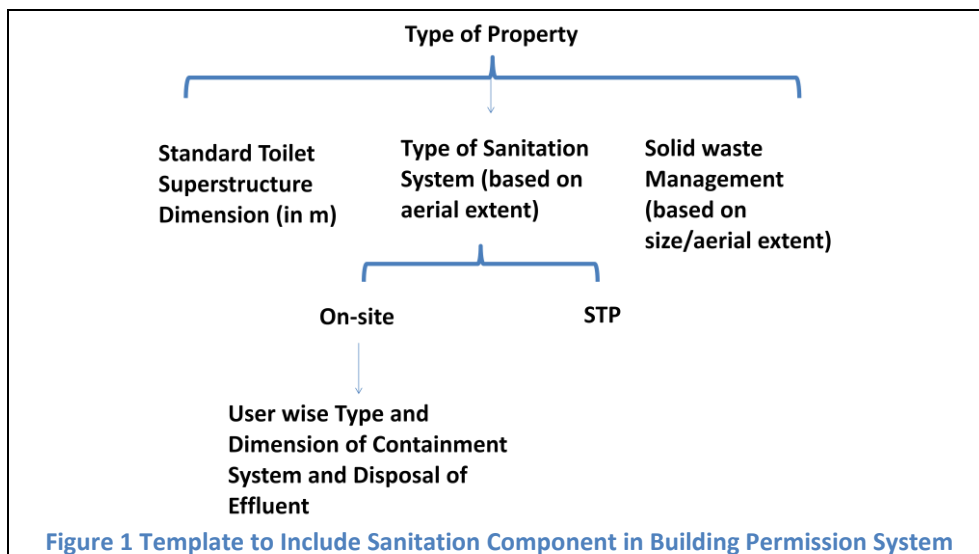


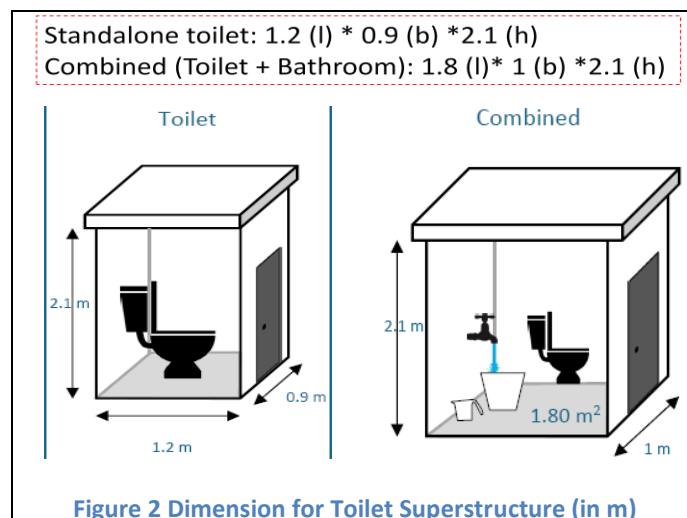
Inclusion of Sanitation Parameters in DPMS – Telangana

Toilet containment systems are not part of the building approval process. As a result, septic tanks are constructed following an unscientific approach and are under performing. For eg. a 100% HH survey conducted in Narsapur suggested that only 40% of households have constructed their septic tanks follows existing guidelines.

So, as per the Steering Committee Meeting held with CDMA, ASCI and Softtech on Dt: 13.04.2018, the process of inclusion of Septic Tank scrutiny in DPMS was discussed. It should start with selection of property type. Whatever is the property typology, it should undergo screening for 3 components: Standard toilet superstructure (which is already being scrutinized in DPMS), Type of containment system, and Solid waste management system.



Whatever is the property type, it will have to follow the dimensions indicated below as sourced from Performance Assessment System (PAS Project, CEPT University), while constructing standalone toilet and combined toilet and bathroom. [As per the meeting held at ASCI]



However, Standard Toilet Super structure was being scrutinized in DPMS based on NBC guidelines (Part 3 12.4)

Incorporation in DPMS:

Building Permissions

BPAMS:

1. “No. of Occupants” field is to be added in “Building details” tab.

Based on this input, the size of Septic tank (Refer Tables 1, 2, 3, 4) provided in the drawing will be verified while running AutoDCR.

Mr. _____ [Architect] [31-03-2022]

File No. : 3006/3292/W53/2016 Flow Version: 3 Proposal Status : Draft Mode Architect : RAGHU GAJULA

Proposal Risk Category : Low

Application Form Document Drawing

General Information Applicant Information Application Checklist Plot Details Land Details **Building Details** Apply For NOC's GEO Location

Sr. No.	Name	Number of Occupants	Type	Use	Sub Use	Number of dwelling units	Height	No. Of Floors	Floor Details
1	MOHD. GHOUSE PASHA	10	Single Detached House	Residential	Other Residential Building	1	6.6500	2	

Figure 3 Application Form – “Building Details” tab

2. “Whether sewerage system is available in the surroundings?” point is to be added in “Application Checklist” tab. (Discussed at Meeting with CDMA on dt: 13.04.2018)

Mr. _____ [Architect] [31-03-2022]

File No. : 3006/1521/W47/2016 Flow Version: 3 Proposal Status : Draft Mode Architect : RAGHU GAJULA, Owner Name

Proposal Risk Category : Low

Application Form Document Drawing

General Information Applicant Information **Application Checklist** Plot Details Land Details Building Details Apply For NOC's GEO Location

#	Description	Value	Remark
1	Is any building sanctioned on this plot previously?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2	Whether Proposed site falls within (50 Mt) from the defined boundary of water bodies?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
3	Whether proposed site falls within the Air Funnel Zone?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
4	Is the property located nearby notified Religious Structure?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
5	Is the property located nearby notified Heritage Structure?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
6	Whether Proposed site is located in the vicinity of Oil / Gas pipe line?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
7	Whether the site is falling within the vicinity of Raw water channel/ pipe line?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
8	Whether proposed site area greater than 10,000 Sq. Meters?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
9	Is this a vacant plot?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
10	Whether LT/ HT/ TOWER lines passing through the site?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
11	Whether the site falls within 5M from defined boundary of naia?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
12	Whether sewerage system is available in the surroundings?	<input type="radio"/> Yes <input checked="" type="radio"/> No	

Figure 4 Application Form – “Application Checklist” tab

3. “Whether sewerage system is available in the surroundings?” point is to be added in “Site Inspection checklist”.

Mr. 1ST LEVEL OFFICER [TOWN PLANNING]

Application Form Document **Site Inspection** Drawing Fees Add Condition Letters & Plan

Inspection Checklist Joint Checklist Inspection Photograph

Inspection Report

Site Inspection Checklist

*Inspection on 24/4/2018

#	Description	As On Plan	As On Site	Observation	Remark
1	Whether approach road existing at site		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
2	Whether approach road connected with an existing public road		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
3	Nature of approach road		Blacktop	✓ Approval	✓
4	Width of approach road in Mt.		30	✓ Approval	✓
5	Services over approach road		Electricity, Water Supply, Sewerage	✓ Approval	✓
6	Whether approach road side drain exists		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
7	Nature of Drain at approach road		Concrete	✓ Approval	✓
8	Whether the Site is vacant		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
9	Does plot boundaries tallies with the site?		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
10	Whether the site is affected by/ in the vicinity of		NIL	✓ Approval	✓
11	Distance from water body?		NIL	✓ Approval	✓
12	Whether high tension line passing over the site		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
13	Site Surrounded by (physical features)				
14	EAST		BT road	Approval	✓
15	SOUTH		Others of others	Approval	✓
16	WEST		House of others	Approval	✓
17	NORTH		House of others	Approval	✓
18	Site terrain		Plain Land	✓ Approval	✓
19	Site enclosed with		compound well constructed	✓ Approval	✓
20	Whether complete infrastructure is provided by the plot owner?		<input checked="" type="radio"/> Yes <input type="radio"/> No	Approval	✓
21	Whether sewerage system is available in the surroundings?		<input type="radio"/> Yes <input type="radio"/> No		

Figure 5 Site Inspection – “Inspection Checklist” tab

AUTODCR:

1. Provision of “Septic tank” and “STP” markings / layers in PreDCR (which are already provided in PreDCR).
2. AutoDCR checks:
 - a. For plot area < 10,000 sq.m., to check the septic tank provision, location and size based on the “No. of occupants” field in BPAMS. The size of septic tank varies with the no. of users and the type of property – Lodging or Rooming, Individual residential buildings, Dormitories or Hostels, Apartments, Hotels, Commercial properties (source: CPHEEO Manual, 2013) as mentioned below:

Lodging or Rooming:

For lodging or rooming houses, septic tank should follow the dimension as indicated below.

Users (No. of occupants)	L	B	D (2Y interval desludging)	D (3 Y interval desludging)
15- 20	2.3	1.1	1.3	1.8
20- 40	5	2	1	1.24

Table 1 Dimension of Septic Tank for Lodging or Rooming Houses (in m)

Individual Residential buildings:

For one or two family private dwellings, septic tank or soak pit is constructed as containment system. Containment system should be constructed following the dimension as mentioned in the tables below.

Users (No. of occupants)	L	B	D (2Y interval desludging)	D (3 Y interval desludging)
5	1.5	0.75	1	1.05
10	2	0.90	1	1.4
15	2	0.90	1.3	2
20	2.3	1.1	1.3	1.8

Table 2 Dimension of Septic Tank for Private Dwellings (in m)

Septic tanks should be located in rear or side open space and there should be provision of 300 mm free board.

Users (No. of occupants)	Dry Pits		Wet Pits	
	Dia	Depth	Dia	Depth
5	900	1000	1000	1300
10	1100	1300	1400	1400
15	1300	1400	1600	1500

Table 3 Dimension of Twin Pit Toilet for Private Dwellings (in mm)

Apartments, Dormitories, Hotels and Hostels, and Commercial properties:

For apartments, dormitories, hotels and hostels, and commercial properties which caters to higher number of users, should maintain the following dimension while constructing septic tank.

Users (No. of occupants)	L	B	D (2Y interval desludging)	D (3 Y interval desludging)
50	5	2	1	1.24
100	7.5	2.65	1	1.24
150	10	3	1	1.24
200	12	3.3	1	1.24
300	15	4	1	1.24

Table 4 Dimension of Septic Tank for Large Users (in m)

- b. For plot area > 10,000 sq.m., check the provision of STP in the drawing.

Occupancy Certificate:

BPAMS:

1. If “Whether sewerage system is available in the surroundings?” in Application checklist is marked as “Yes”, then checklist in OC should ask a point: “ Whether connected to sewerage system”
2. Other than the above mentioned point, site inspection should consider the following 3 categories: specification for toilet superstructure, design checklist for septic tank, access to property for desludging.

a. Checklist for Accessibility to Property for Desludging:

Component	Yes	No
presence of approach road		
Connection of approach road with an existing public road		
whether approach road side drain exists : Y/N		
presence of water Bodies (within 200 Mt)		
nature of approach road : Kutchha / WBM/ Blacktop/ Concrete/ Nil		
width of approach road in Mts. ___		

Table 5 Checklist for Accessibility to Property for Desludging

b. Checklist for Toilet Super structure:

Component	Yes	No
Water Seal		
Floor sloped towards drain		
At least 1 wall open to fresh air		
Window/ventilator – Not less than 0.3 m2		
Should not open into kitchen		

Table 6 Checklist for Toilet Superstructure

c. Checklist for Septic tank design:

Component	Yes	No
diameter of the pipe 100 mm or more		
direction of flow from a branch connection shall not make an angle more than 45° with the direction of flow in the main pipe		
ventilating pipe diameter 50 mm or more		
Lined with stone, brick or concrete blocks with dry open joints which should be backed with at least 75 mm of clean coarse aggregate		
Distance between septic tank and well should be 18m		

Table 7 Checklist for Septic Tank Design