



# NEST-IN is a smart steel based modular construction solution

**Nest-In** is Tata Steel's smart steel based modular construction solution. Nest-In with its pan-India presence, highly efficient delivery mechanism and one-stop solution is dedicated to provide pre-fab modular offerings.



## Speed

- Just in time manufacturing,
- Quick installation



## Scale & Reach

- Aggregation of capabilities of multiple solution partners



## Convenience

- Single point solution
- Turnkey services

# Nest-In presents Automated Public Toilet – A smart sanitation solution



# Functioning of Automated Public Toilet



Door opens on Coin drop / Button Push. Bolting from inside is manual



On entering inside lights operate automatically



Entry restricted when there is no power or water



# Self Management + Service Management



It indicates status of occupancy, warns 2 adult entry, and has an emergency exit option for occupant safety



Engages Pre-flush and Post-flush for effective cleaning using the minimum amount of water resources



Easy clean design constitutes internal surface material, non-residual floor design



Intelligent efficient management of resources and triggers shut down before resources are totally depleted.



Periodical Power Spray cleaning at pre-fixed intervals

# Unique Hygiene concept

## Pre-flush

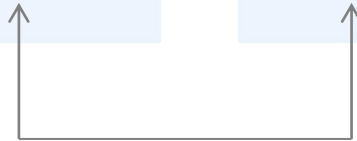
- Automatic flushing before user entry
- Ensure the cleanliness before the user enters

## Post flush

- Automatic flushing after the usage
- Ensure cleanliness after use

## Entry restriction

- No entry for user if there is no water or electricity
- Ensure misuse or unclean use of the toilet



***Minimises user contact***

# Pressurized wall cleaning



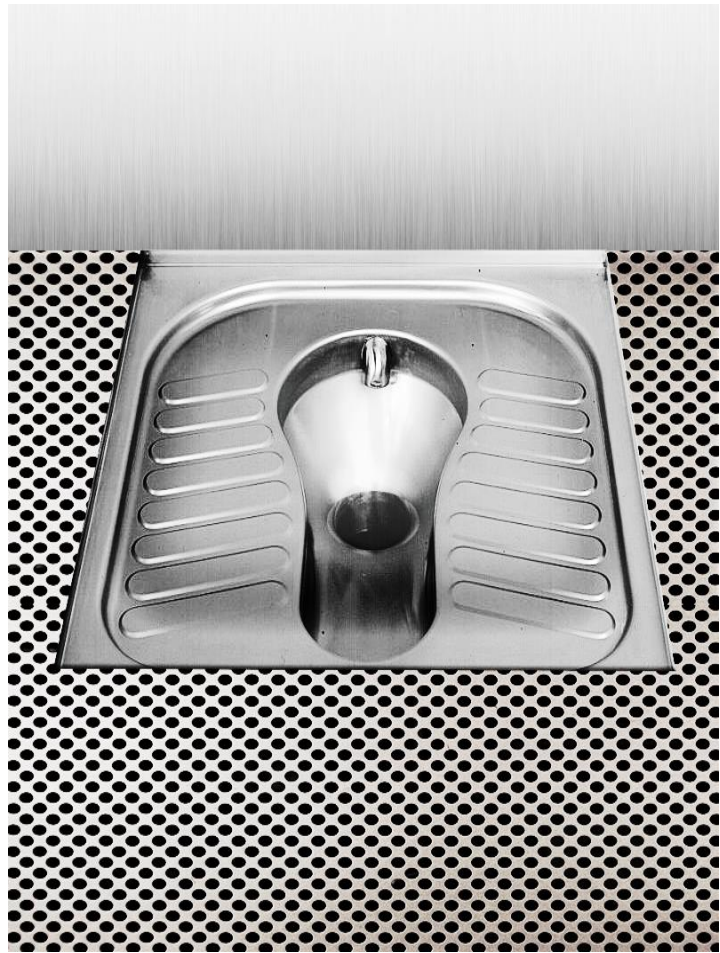
Specially designed nozzle

High pressure water jet

Full wall and floor cleaning

Pre programmed intervals

# Unique 2 layered Floor Design



Top layer: 316 grade Stainless Steel floor, 3mm thick with 5mm perforation

Water Jet cleaning of wall floor is more effective with floor perforation  
Easy removal of Dirt and mud

Bottom layer: 1.5mm thick with ventilation and slanting for drain out of waste water



# The question of why Nest-In Automated Public Toilet answered here..!!

Feature	Nest-In Automated Public Toilet	Major competitors
Inner space	1200 x 1200 mm ( 4x4 feet) more space to use toilet without touching on walls	About 40-50% less than Nest-In toilet
Material Inner walls & doors	3 mm 316 grade SS Perforated floor, interiors and doors with 316 grade stainless steel	Mild steel (Possibility for rusting) Or with low grade SS
Floor Design	Unique double layered perforated floor design for easy cleaning and mud removal	Normal flooring
Prevention from getting trapped inside	Unique design ensuring automation from outside and fully manual operation from inside	Some toilets uses automatic doors which causes getting trapped inside
Plumbing Material	With CPVC to with stand heat and pressure for a long period of time	PVC
Optimum & efficient water usage	Pressure boosting pumps to maintain optimum pressure while flushing, hand washing and cleaning	No pressure boosting
Cleaning	Both Floor and Walls are cleaning with patent pending technology	Generally floors only
Vandal deterrent design	Equipment inside the toilets are kept in vandal proof way so that public cannot tamper them easily	Not designed in such manner

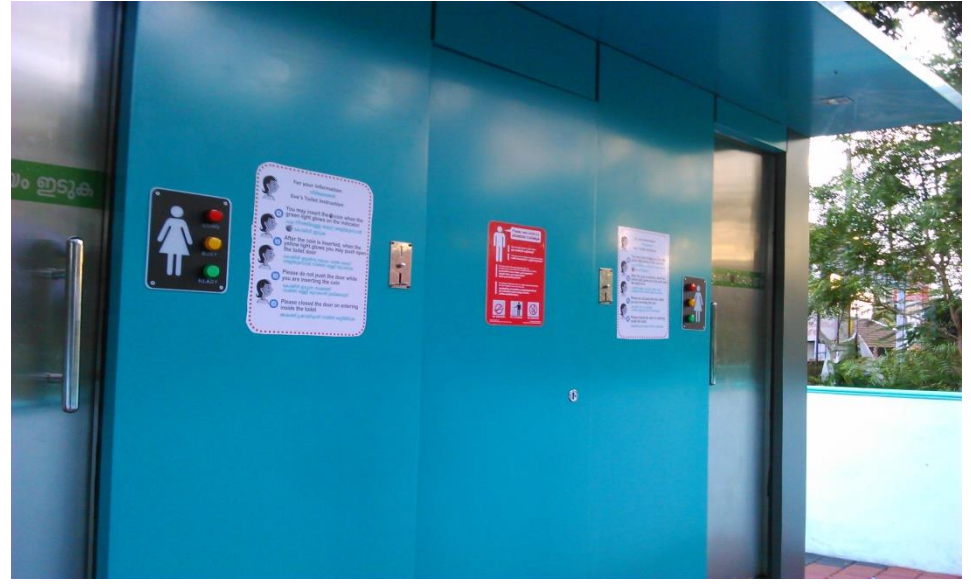
# Specifications

Specifications	Single Unit	Double Unit
<b>Exterior area measurements covered with Aluminium Composite Panels</b>		
Width	1550 mm	1550 mm
Length	1500 mm	3600 mm
Height (front)	3110 mm	3110 mm
Height (rear)	2100 mm	2100 mm
Canopy width	700 mm	700 mm
Step width	500 mm	500 mm
<b>Inside Area measurements covered with StainlessSteel 316 grade</b>		
Width	1200 mm	
Length	1200 mm	
Height	2440 mm	
<b>Service Area (Rear Side)</b>		
Width	1000 mm	1000 mm
Length	400 mm	1200 mm
Height	2100 mm	2100 mm
<b>Structure measurements and materials used</b>		
Base: length * width using MS 100mm C-Channel or powder coated 8mm slotted angles	1200mm * 1200mm	1200mm * 1200mm
Structural frames and SS Cladding re-enforcements GI Tubes and plates powder coated	yes	yes
Floor upper layer perforated & non slippery 3 mm stainless steel sheets	SS AISI 316	SS AISI 316
Floor inner layer water proof and ventilated 1 mm stainless steel sheets	SS AISI 304	SS AISI 304
Wall & Roof PUF panels, with 1 side 0.5mm thick SS, 316 grade, 1 side 3mm exterior grade ACP with PUF insulation in-between	50-100mm	50-100 mm
Front Panel box for Coin/card/ewallet integrated mechanism	SS 304 1mm sheet	SS 304 1mm sheet
Door both side	SS AISI 304/316	SS AISI 304/316
Foot Step WPC board with GI powder coated structure	500 * 1800 mm	500 * 3600 mm
Locks	Electric strike door opener	
Ventilation	Exhauster 6"	

# Specifications

<b>Plumbing</b>		
<b>Pressure Boosting Pump</b>	0.5 HP	0.5 HP
<b>Plumbing material</b>	CPVC	CPVC
<b>Cleaning Nozzle</b>	SS 304 spiral	SS 304 spiral
<b>Water Tank 300 liter</b>	SS AISI 316	SS AISI
<b>Electrical</b>		
<b>UPS</b>	600VA	600VA
<b>Battery</b>	60 AH	60 AH
<b>Appliances</b>		
<b>Vandal proof Indian style SS toilet pan</b>	Yes	Yes
<b>Mirror SS</b>	Yes	Yes
<b>SS waste bin with push door</b>	Yes	Yes
<b>SS water tap</b>	Yes	Yes
<b>SS tower bolt from inside lock</b>	Yes	Yes
<b>Fan with vandal proof</b>	Yes	Yes
<b>Handle / handrail SS 1"</b>	Yes	Yes
<b>Bag holder SS</b>	Yes	Yes
<b>SS Cup with chain/ Health Faucet</b>	Yes	Yes
<b>Water pressure cleaning system</b>	Yes	Yes
<b>Coin mechanism/ Press Button</b>	Yes	Yes
<b>Automatic Pre-flush system</b>	Yes	Yes
<b>Automatic flushing after use</b>	Yes	Yes
<b>Manual exit option</b>	Yes	Yes
<b>Manual opening of toilet inside bolts from outside in case emergencies</b>	Yes	Yes
<b>Emergency contact number provided</b>	Yes	Yes
<b>Manual flushing option</b>	Yes	Yes
<b>Self-cleaning of floors and walls After every 5/10 use configurable</b>	Yes	Yes

# Gallery- Exteriors



# Gallery- Interiors

