

Frequently Asked Questions

PART- A (General FAQ on eToilet)

1. What is an eToilet?

eToilet is a modular, pre-fabricated public toilet made of steel and is integrated with user-friendly electronic interfaces, to ensure cleanliness and hygiene to every user. Unmanned and automated, eToilets have remote monitoring capabilities and its health status can be tracked over web. These toilets incorporate full-cycle approach in sustainable sanitation by integrating electrical, mechanical and web-mobile technologies. They control entry, usage, cleaning, and remote monitoring capabilities with multiple revenue options.

2. What are the various models of eToilet?

eToilets are available in 3 variants - Stainless Steel model, Mild Steel model and Civic model. Stainless Steel & Mild Steel models can be customized exclusively for Women users by integrating Sanitary Napkin Vending machine and Napkin Incinerator. Civic models are a scaled down version of the Public model, while it features almost similar functionalities of public model, some functions such as GPRS connectivity, Coin validator etc are excluded. e-Lite14 is the new model launched exclusively for schools.

3. What are the features of eToilet in general?

The eToilets feature self-cleaning mechanism, such as automatic pre-flush, automatic after flush, automatic platform cleaning, automatic lights and exhaust fan. It also has LED indications, overhead water tank, GPRS connectivity for online tracking, sensor based electricity and water conservations, coin validated entry, voice guidance etc.

4. How many eToilets have been installed till date and at where all places?

As on date over 600 eToilets have been installed in 11 States in the Country. This includes 200+ school models in Kerala. 105 school model eToilets have been installed in 35 schools in Ernakulam District in Kerala as part of Suchi@School Project initiated by Shri. P.Rajeev MP in co-ordination with State Education Department. Similarly 25 eToilets have been installed in 11 schools in Kollam District in Kerala as part of LAC ADS funds of Shri.M.A.Baby MLA.

Apart from Kerala, eToilets have been installed in Tamil Nadu, Andhra Pradesh, Maharashtra, New Delhi, Bihar, Jammu & Kashmir, Gujarat and Himachal Pradesh.

PART- B (FAQ on e-Lite14 model eToilet)

1. Why eToilets are required for schools? Why not Brick and Mortar or other models?

Conventional toilets which require continuous manpower to clean and supervise is found to be a non-sustainable solution for addressing sanitation issues in schools. eToilet is completely unmanned and automated and has inbuilt self-cleaning mechanism. eToilets are developed after close analysis of the lacunae of the school sanitation system for over the past 6 years and R&D conducted on appropriate solutions using alternate materials, multiple business models and maintenance mechanisms. This time tested and long standing solution effectively address the concerns of schools sanitation in a holistic manner.

Several anecdotal evidences of failed sanitation models are available for introspection, while planning for new toilet deployments in schools. Nirmal Souchalaya project in Bangalore, plights of toilets in schools implemented under SSA/MPLAD projects are some instances of such failures. Selected reports of studies on sanitation issues at schools, conducted by various government agencies and other institutions on the sanitation across India is available at our website.

www.eramsscientific.com/SanitationatSchools.pdf.

2. How is the new school model e-Lite14 different from other eToilets and what are its features?

e-Lite14 is the latest model of eToilet developed for schools. Some of the features of the model are;

- Built-in Solar panels for power generation, no electric connection is required
- Metallic platform for installing the unit, no need for any civil platform.
- Automatic Pre-flush and After-use flush with minimum water consumption.
- Automatic platform cleaning.
- Automatic inner lights.
- Stainless steel platform with SS Indian Closet.
- Manual indication in the door showing Vacant / In use
- Inbuilt overhead water tank.
- Portable, Compact and User-friendly Design
- Durable Materials & Less Maintenance

- Easy to Install and Service
- Nozzles operated Automatic Floor Cleaning Mechanism.
- Sensor enabled Energy/Water saving Design
- Natural light provided

Differences of features in DB9009 School / Civic Model and eLite14 model

Sl. No	Feature	Civic Model -DB9009	eLite14 model
1	Platform of the toilet	Civil platform requiring civil work	Metal platform with no civil work
2	Floor Wash	On demand	Automatic floor wash
3	Overhead water tank capacity	225 litres	100 litres
4	Natural light inside the unit	Limited	Ample
5	Power (Electricity)	Required	Solar powered
6	Floor washing mechanism	Normal floor wash	Nozzle based floor wash (low power consumption)
7	Inbuilt Sensors	PIR (Passive Infra-Red sensor)	No PIR.
8	Back-panel	Standard fitment	Tiny electronics box instead of Back panel
9	Electronics	More electronics	Less electronics
10	Plumping	Factory fitted	On site plumping
11	Student friendly stickers	Standard feature	Optional feature
12	In Use/ Vacant indication	LED indication	Mechanical system
13	Water tank covering	Not available	Standard feature

3. What are the dimensions of the e-Lite14 model?

Toilet structure- 50 x 30 x 2mm Thick MS Tube with Powder Coating

Panels - Cold Rolled Steel (CRS) with Powder Coating 1mm Thick

Overall size (in mm) - 1710L x 1000B x 2650H

Base (in mm) - 1600L x 800B x 300H

4. What are the pre-requisites for installing e-Lite14 eToilet at school?

Availability of water, provision for sewage connection / facility and 25 sq.ft space for installing the e-Lite14 are the pre-requisite factors for installing e-Lite14 eToilet at school.

Water availability is mandatory for the e-Lite14 model eToilet. The water for the unit would be connected from the nearby source. In the event of unavailability of water, options like Borewell can be sought. The e-Lite14 has an inbuilt overhead water tank which could be connected to the existing water source ie Open Well of Bore well.

There should have sewage disposal provision for e-Lite14 model to be installed in schools. The eLite-14 can be connected to the existing sewage line. If the same is absent, then they school could opt for a normal sewage pit or a sewage treatment plant separately. Sewage Treatment Plant offered by Eram Scientific would be the DRDO bio-digester, for which necessary space has to be available at the school.

5. What happens when electricity connection to eToilets is interrupted?

Envisaging the uncertainty of electricity availability in schools in rural and remote locations, E-Lite14 is equipped with solar panels. For 3-4 hours of sunlight, these solar panels can generate power for the functioning of the E-Lite14 eToilet for 1 day. Hence, there would not be an instance of complete draining of power supply to the eToilets, if sunlight is available for at least 3-4 hours in a single day.

The e-Lite14 eToilet is designed in such a way that it can be even be used as a normal toilet, when electricity is not available or when the solar power runs out. In such case, the automatic cleaning features of the unit will not be functional, but the same would be activated once the power is back. Even in the absence of power, the students could use the toilet like a normal one.

6. **Will there be insurance coverage for the e-Lite model and if so, what all would be covered under insurance?**

Insurance facility would be provided for the e-Lite14 model without additional cost. The insurance would cover Fire and Special Peril policies & Burglary (E-Toilets) and Legal liability to third party (Public Liability).

7. **What is the cost of e-Lite14 model eToilet?**

The ex-factory price of one e-Lite14 model eToilet is Rs.99,999/-, across India. Free insurance coverage for 1 year is included in this price. This excludes taxes and charges mentioned in Point No.8(a&b).

8. **What are the additional costs for the buyer?**

a. **Statutory payments / Tax**

1. Excise Duty, CST/VAT would be additional. Currently the Excise Duty including CESS is at 12.36% of Unit Cost.
2. CST/VAT is as applicable for State to State. If a valid C-Form is available with the Client, then the CST/VAT would be reduced to 2%. (We have requested Govt of India for exempting Excise Duty levied on eToilets.)
3. Local taxes like Entry Tax/OCTROI etc as applicable.

b. **Transportation, Installation and Commissioning charges**

Transportation cost would vary as per location. We would supply the units to Clients from the nearest facility. The Client would have the option of lifting the unit directly from the factory by using their own transportation facility. In such case, we would provide necessary technical assistance for installing the unit, with manuals and videos. If in case we have to deliver the unit at the client site, then we would undertake the transportation, installation and commissioning process as a Project and we would ascertain a cost on the basis of actual expenditure.

9. **Is there any Warranty for the e-Lite model?**

The e-Lite model has an inbuilt warranty of 1 year from the date of installation.

Any manufacturing defect, if found, would be taken care during the warranty period. The Warranty also covers free replacement of parts. Any damage or defect caused due to external factors such as lightning, misuse, purposeful tamper, physical damage, vandalism, theft etc. will not be covered under warranty.

10. **What would be the maintenance plan after the warranty period?**

Beyond the Warranty period, the technical support would be extended to the units, on payment of an Annual Maintenance Charge of

Rs.10,000/-. A separate agreement will be required to be signed in this regard. There is also provision for On-Call basis maintenance plan. There is provision for fixing advertisements in the external panels of the e-Lite14 model, through which schools could generate enough revenue for meeting the running costs of the unit. We would also provide training for selected personnel in school to repair the minor complaints of the eToilet.

11. What is the booking process for e-Lite14 model?

The booking details for the e-Lite model are available in our website www.eramscientific.com . Any person or institution who would like to book an e-Lite14 model/models would have to enter the required details specified in the booking page. Once the details are entered and the booking is done, a confirmation message would be displayed and our Sales team would be contacting the individual / institution.

12. What are the payment terms for e-Lite14 model?

Once the booking is confirmed and when the person/institution receives the invoice, they have to provide the further details as would be required in the format, issue a Purchase Order and remit 50% of the total cost as Advance to Eram Scientific by way of Bank Transfer. (Details of Bank Transfer would be provided in the invoice after booking confirmation). On receipt of the PO, the eToilet would be assigned to the Client and would be delivered. The remaining 50% of the Project cost would be payable on delivery of the eToilet at the Client's location. An agreement in this regard would be executed by us with the Client to ensure the timely delivery of the unit and payment process.

13. What is the delivery period for e-Lite14 model?

The usual delivery time for the e-Lite model is 4-6 weeks from the date of receipt of work order along with the advance amount. However this would flexible depending on the location, urgency of the buyer and order volume. **The allotment of the e-Lite would be on a First Come-First Serve basis.**

14. Who can buy the e-Lite14 model?

Schools, Institutions and Individuals can buy the e-Lite model. Eventhough the e-Lite model is envisaged for schools, the same can be provided to small offices or establishments wherein the units could be placed in a controlled environment. The e-Lite model is not intended for public places. **Payment conditions is applicable for all irrespective of government and private buyers.**

15. **What is the minimum order quantity for booking e-Lite14 model?**

The minimum quantity for booking e-Lite14 model eToilets is 4 numbers.

16. **Where can I see an e-Lite model?**

The photographs and video of e-Lite model is available in our website. We have sample units installed at Thiruvananthapuram, Kerala which can be seen on prior intimation. We are planning to arrange road-show for the e-Lite model in various locations of the country.

17. **Which phase is the e-Lite model currently on?**

The model is ready for mass-deployment.