



**PRE-BID MEETING-01**

**Project Name:** E Toilets at Public Places under “Smart City Mission” in Puducherry.

**Name of Work:** RFP for Supply, Installation & Commissioning including Operation & Maintenance for 5 years” of E Toilets under “Smart City Mission” at Puducherry City

**Reply to the queries raised by Agencies in Pre-Bid Meeting held on 22.07.2019 at JCEO’s Chamber, PSCDL**

Sl. No	RFP Volume, Section	RFP Page No	Contents in RFP	Clarification Sought	Clarifications by Client
1			Title of the RFP	Please remove the term E-Toilets from the RFP, as a company which has a patent pending is using similar terminology which is pronounced as e-toilet. Any bidder in India who bids for a tender with this terminology faces a legal suit from the company. Hence we request you to kindly amend the terminology to Smart Toilet/ Auto Toilet etc.	The RFP is proposed for an Electronic toilet and mentioned as "E-Toilet" in shorter form under Puducherry smart city proposal. This is an open tender concept.
2	Clause 4.2.2	33	Installation and maintenance of E Toilets	We would like if the scope of tender is limited to Supply, Installation & Commissioning Only. Operation and Maintenance in India is always subject to the conditions in which the toilets run and should be done by the Local Civic Authorities only. The reason is that the no of toilet locations is very less and we would have to deploy 1 person per toilet to ensure smooth operations and the supervisory staff thereon, hence the Operation & Maintenance costs would go up. <b>THUS PLEASE LIMIT THE SCOPE OF TENDER TO SUPPLY, INSTALLATION &amp; COMMISSIONING of AUTO TOILETS.</b>	Since, the electronic toilet is a new modern technology and O & M expertise is not available with local bodies, it is clarified that, the O& M as proposed in RFP shall prevail



3	Clause 1.1	10	Notice Inviting Tender, Tender Fee and EMD	All Smart Cities are SPVs of the Central Government of India. Hence the rules & benefits applicable to central government procurement system should be applicable to this project as well. Thus we request that MSME registered with NSIC be exempt from payment of Tender Fee and EMD as per notification of the Central Government of India (Copy Enclosed for your reference)	As per the GoI, Ministry of Finance O.M.F20/2/2014-PPD(H) dt.27.7.2017, Exemption of Tender fee & EMD is allowed
4	Clause -4.1.5	30	General Technical Specifications	<b>Technical Specifications</b>	
				• <b>Service Room:</b> Please specify the minimum dimension of the Service Room	Minimum dimensions of service room 1200mm x 900mm
				• <b>Inside Lock:</b> In place of manual Inside locks, we propose to provide EM Locks which are automatic and power operated. As soon as the user pushes the EXIT Button from Inside, the Locks Open and the Door Opens. This will ensure less thefts and vandalisms on door locks, as if we put additional hardware, it is prone to theft and vandalism	Since already RFP stipulates manual locking from inside, the EM locks may not arise.
				• <b>Ventilation:</b> In addition to Exhaust Fan, we propose to have additional ventilators in the wall / Bottom of Door, to facilitate cross air ventilation	RFP stipulation shall prevail
				• <b>Electricals :</b> We propose to provide AC Lights and Fans, as the system will be running on AC Power primarily.	The option of running the system for lights and fans by AC or conversion of AC to DC arrangement for



			<p>Converting AC to DC and the running the system would increase power consumption.</p> <p>•<b>Water tank:</b> 1000 Ltrs Capacity Water Tank would mean a weight of 1000 kgs on the top. Please specify whether this is for 1 unit or for twin units ( 1 location) Also we clarify here that this would mean a lot of wight load on the ceiling and structure would be unstable. Please clarify.</p>	<p>Electronic items is left to the choice of bidder</p> <p>The capacity of water tank is 500 lit for two units which is to be provided in the Service Room.</p>
			<p>•<b>Emergency Exit:</b> instead of Overriding of Manual lock from a window outside, we propose that EM lock be provided, and as soon as the Emergency Button in pushed, the doors open. This would ensure the opening of the door from inside when the occupant is in trouble. Moreover, we can also put a time cycle of say 10 - 15 minutes, where the doors would open automatically if the occupant stays inside for longer duration.</p>	<p>RFP condition shall prevail</p>
			<p>•<b>Incinerator:</b> Please specify the technical specifications of the Incinerator</p>	<p>Galvanised metal body, automatic , wall mounted Sanitary Napkin incinerator with 1000 W capacity capable of burning @ 15 pieces at a Time</p>
			<p>•<b>Pad Vending Machine :</b> Please specify the specs of the PAD Vending Machine</p>	<p>It is not in the scope of work.</p>



			<p><b>•Perimeter Beautification:</b> Please elaborate of approximate area for beautification.</p>	<p>Perimeter of the toilet shall be beautified with laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design /shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand, filling the joints with coarse sand etc. filling the joints with course sand with a total height of 200mm from road level etc. all complete. The location wise approximate area coverage is : Railway station-36 m<sup>2</sup>, Botanical Garden-36 m<sup>2</sup> and Near Craft mela-9 m<sup>2</sup></p>
			<p><b>• Bio Digester :</b> Does the output of the bio-digester tank have to be connected to a drain or somewhere? . If so the distance, Please specify the Size of the drain, and the scope of work.</p>	<p>The effluent from the Bio-digester shall be let into a soak pit The soak pit included in the Bill No 1, Sl.No II (a), (ii). (It shall be of 2 Nos ,2.5 m diameter 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per standard design with F.P.S .bricks)</p>
			<p><b>•Revenue Sharing:</b> Since the revenue so generated will be taken by the PSCDL, the security deposits for electric</p>	<p>Availing of water , sewer and EB connections shall be the scope of PSCDL. However, monthly</p>



**PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)**

				connections, meters and cabling should also be arranged by PSCDL. Please confirm.	payments to Water Bills, Electricity Bills, Internet Bills, daily collection of coin etc is with the bidder's scope.
5	Clause 3.1.3	44	Sub-Contracting	Sub-Contracting is not allowed for this RFP. Kindly make OEM/ authorized dealer of the OEM eligible to participate	With regard to Sub-contracting, RFP stipulation shall prevail. However, to get more response from the bidders it has been decided to allow JV with two participants.  Please refer to <b>Corrigendum-1</b>
6	Clause 3.4.4	22	Pre-Qualification Evaluation Criteria	Similar nature of work. Kindly make it construction of toilets instead of e-toilets. As automated toilets is a new product that has been introduced in recent years it would be difficult to have similar experience.	RFP stipulation shall prevail
7	Clause 3.4.5	23	Technical Evaluation Criteria	Sub-contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria except to the extent stated above, In case, experience in modular toilets can't be considered, kindly allow the sub-contractor experience into consideration.	RFP stipulation shall prevail
8	Clause 4.1.2	28	General Features	<b>Sewage treatment:</b> Kindly let us know the capacity expected.	Refer to the <b>Clause 4.2</b> General Technical Specifications, Other features Sl.No 4
9			Usage of the word "e-toilet"	<b>Usage of the word "e-toilet"</b> -The term "e-toilets" is a trademark of a particular company. It cannot be used for	Refer reply to Serial No.01



				tenders as it will be favoring that particular company. It is in violation of law as it is against the provisions of Competition Act 2002. Instead of "e-toilets" words like "automated toilets" or the like can be used.	
10	Clause 4.2 Technical Specifications	29	<b>Sl.no 1-Inside Area for single cubicle</b> Gents and Ladies minimum Width 1050mm±50mm, minimum Length 1200mm±50mm Disabled minimum Width 1200mm±50mm ,minimum Length 2100mm±50mm The door has to lock from inside manually and fabricated strong enough to prevent vandalism and tampering. Toilet door control from inside should be manual and operational even if a total power failure occurs. The door should be equipped with branded door closer,	Our Twin model has the specification of no need of sliding door for a toilet , Normal manual door with automatic door closure suffice the meet <b>Advantages:-</b> This dimensions meets the purpose of a toilet More space provided will divert to anti-social activities and other misuse Easy to relocate in case of road widening with in minimum area and cost. All inside Modules can be accessed easily	RFP stipulation shall prevail



			mortis lock and door handle		
			<p><b>Sl.No 10 Main Door:</b> The door has to lock from inside manually and fabricated strong enough to prevent vandalism and tampering. Toilet door control from inside should be manual and operational even if a total power failure occurs. The door should be equipped with branded door closer, mortis lock and door handle</p>		
11			<p><b>Sl.No 4, Cubical Floor:</b> Double layered floor with upper layer made of stainless steel AISI 316 with 3 mm thickness perforated &amp; non-slippery. The layer beneath should be waterproof and ventilated anti-fungal tray connected with soak pit with P-trap. The layer beneath should</p>	<p>Floor is made of non-perforated SS 304 grade singles heet with 1.5 mm thickness and proper stiffeners. <b>Advantages:-</b> Single layer SS sheets for floor will not allow any mud or dirt to accumulate into the sheet and without floor wash system these dirt can be easily removed .Accumulating of dirt is found high in perforated sheets Cleaning mechanism in perforated sheets is not as efficient as single layered sheets Will create bad smell inside the toilet due to bottom tray.</p>	<p>RFP stipulation shall prevail</p>

			have provision for cleaning.		
12			<b>Sl.No 5, Insides wall-</b> Wall should be stainless steel panels with 316 grade with waterproof, finished, smoothed facade to prevent dirt accumulation on corners and ridges	With small ridges 304 Grade walls with 1 mm thickness. <b>Suggestion:</b> 304 Grade walls will meet the purpose,316 Grade will incur more cost	RFP stipulation shall prevail
13			<b>Sl.No 6, Roof:</b> Roof shall be insulated PUF sandwich panels with PPGI sheet on top or GRP moulded roof with insulation to prevent temperature extremities.	Single layered roof 304 grade with 1 mm thickness. <b>Suggestion:</b> This type of construction will add cost	RFP stipulation shall prevail
14			<b>Sl.No 10, Main Door:</b> The door with stainless-steel panel should have the following dimensions Cubicle type Width ,Thickness ,Height Gents 700mm, 30mm, 1900mm Ladies 700mm, 30mm, 1900mm Disabled 900mm, 30mm, 1900mm The door has to lock	Doubled layered door with inside and outside sheet made of 1mm thickness SS 304 grade is sufficient to avoid heat inside the toilet. <b>Suggestion:</b> 1.7 x 0.7 meters for gents & ladies· 1.7 x 1 meters for PH toilet. These dimensions of this door gives an advantage of closing and opening of the door with less manual effort	RFP stipulation shall prevail



			from inside manually and fabricated strong enough to prevent vandalism and tampering. Toilet door control from inside should be manual and operational even if a total power failure occurs. The door should be equipped with branded door closer, mortis lock and door handle.		
15			<b>Sl.No 15, Step/Ramp:</b> Foot step/Ramp with 500mm minimum width using exterior anti-skidding floor panel.	Civil work entry , Steps or ramp construction can be-provided Granite or tile work provision (Non-slippery type tiles are provided) <b>Suggestion:-</b> Granite /Tiles will give superior finish	The Step/Ramp needs to be provided with anti-skidding floor panel.  RFP stipulation shall prevail
16			<b>Sl.No 19, Battery</b> :Battery 75 AH minimum(Maintenance free) with battery charger(5A min) / UPS – 700vA	7.2 AH battery for UPS will be sufficient to provide 2Hours idle condition back up and 3 transactions after power failure.	The bidders are to ensure that sufficient power back up to the unit for the downtime not greater than 2% in a day at their own choice
17			<b>Sl.No 21, Plumbing :</b> CPVC / branded plumbing material,	PVC plumbing materials - Water tank upto 750 - No spiral cleaning system. DRDO bio digester can be provided as	a) CPVC is more stronger and flexible than PVC. b) DRDO design Bio Digester is to



PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)

			water tank (1000 liter capacity), 0.5HP Pressure boosting pump, spiral cleaning nozzle, automatic valves, inline pressure adjusting mechanism	optional with additional cost. <b>Suggestions:-</b> Our default water tank capacity is 725 litres. Normal PVC plumbing will suffice the need. Spiral cleaning system is not efficient practically. Will leave the water marks. It is dangerous for all electrical appliance inside the toilet. Huge amount of water is required for spiral cleaning and it is just a water wastage	be provided at One location ie Botanical Garden only. c) with regard to spiral cleaning, RFP stipulation shall prevail.
18			<b>Sl.No 24, Waste Bin:</b> Stainless steel waste bin with push door towards outside toilet cubicle with disposable bag kept in service room.	<b>Suggestions:-</b> It will create unhygienic environment outside toilet area such as spitting , throwing of garbage, accumulation of garbage, bad odor and it will create contagious diseases Theft/ Vandalism can occur to SS waste bins	RFP stipulation shall prevail.
19			<b>Sl.No 25, Water tap:</b> Stainless Steel water tap with mug or health faucet or both fitted in a tamper resistant way and easily accessible for the user. Tap should be fixed not more than 150mm from floor	<b>Suggestions:</b> Self-cleaning and washing mechanism of e-Toilet will automatically flush the waste.-So need of extra water to be flushed inside the toilet with the help of mug .Provision of health faucet will meet the purpose.	Bidders to provide health faucet only
20			<b>Sl.No 26, Handle/Hand Rail:</b> Stainless Steel Handle/handrail with 25mm dia for aged people in gents/ladies cubicle.	This facility is available in PH model.	RFP stipulation shall prevail



21			<p><b>Sl. No 28 Cleaning Sytem:</b> Provision for pressurized water cleaning in a swirling way to clean stainless-steel walls of toilet along with perforated floor, toilet pan and wash basin top using SS 316 full cone spiral jet nozzle.</p>	<p>Water cleaning to floor and closet area, Not in walls : <b>Suggestions:-</b>SS 304 grade is scratch proof and it will not allow dust particles to accumulate in the surface. So e-Toilets walls will always provide clean surface. We are providing flush and floor cleaning functions that will meets the purpose</p>	<p>RFP stipulation shall prevail</p>
22			<p><b>Sl.No 29, Self Cleaning:</b> Self-cleaning of floors and walls after pre-programmed intervals. The system will jets high pressure water from top using spiral nozzle to clean wall up to 2m and the perforated floor.</p>	<p>Spiral cleaning system is not efficient practically. Will leave the water marks. It is dangerous for all electrical appliance inside the toilet. Huge amount of water is required for spiral cleaning and it is just a water wastage. Self-cleaning and washing mechanism are available. No Wall cleaning <b>.Suggestions:-</b>SS 304 grade is scratch proof and it will not allow dust particles to accumulate in the surface. So e-Toilets walls will always provide clean surface. We are providing flush and floor cleaning functions that will meets the purpose.</p>	<p>RFP stipulation shall prevail</p>
23			<p><b>Sl.No 37, E - Charging Unit-</b> E charging unit with common USB cable connector for minimum 2 E phones accessible from outside of the</p>	<p>It is not necessary for a toilet.</p>	<p>Being a smart Toilet, RFP stipulation shall prevail</p>



PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)

			toilet without causing any inconvenience to the toilet users.		
24			<b>Other features, Sl.No 1 Sensor Hand Wash Console :</b> SS 316 Wash basin fitted with touch free hand washer touch free with soap dispenser in tamper proof way. The sensor hand wash should dispense only limited amount of water at a time.	We are able to provide push cock tap system. Advantage:-- Sensor based hand wash can damage easily resulting in water losing. Power can be conserved if we avoid sensor based wash basin	Being a smart Toilet, RFP stipulation shall prevail
25			<b>Other features, Sl.No 2 &amp;3 Sign Board and Perimeter Beautification:</b>	Can be provided with extra cost	The quote shall include these items , vide Bill no1, Sl.No II (a)
26			<b>Other features, Sl.No 5 Panic Button:</b> Panic button should be provided inside the cubicle with hooter alarm.	Since it is a manual locking from outside there is no worry of getting trapped inside the toilet <b>Suggestion:-</b> No need of sliding door for a toilet , Normal manual door with automatic door closure suffice the meet.	As the manual locking is provided in the cubicle, the provision of hooter alarm is withdrawn.
27			<b>Disabled Friendly Toilets – Special Provisions Required Sl.No 4 , Main Door:</b> For disabled toilet,	Suggestion:-No need of sliding door for a toilet , Normal manual door with automatic door closure suffice the meet.	To ensure free accessibility for differently abled person Sliding door is suggested. RFP stipulation shall prevail,



PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)

			Sliding door with motorized door operator with manual overriding needs to be provided.		
28			Providing Bio Digester of 2 m <sup>3</sup> capacity at Botanical Garden as per the specification mentioned in the clause 4.0	It is mentioned we need to provide 2 KLD bio digester along with the toilet , but in the BoQ only 1 no of bio digester is required , so kindly clarify the qty of Bio digester to be provided for each toilet	One Bio digester of capacity 2 m <sup>3</sup> shall be provided at the location of Botanical garden site only
29			Notice Inviting Tender Tender Fee and EMD	As we are registered under the National Small Industries Corporation, Govt of India. as per the NSIC regulations, Kindly clarify whether there would be exemption from payment of tender fees and EMD for us. (NSIC Certificate enclosed).	Refer reply to Serial No. 3
30	Clause 3.2.2, Point 2	16	EMD- Performance Bank Guaranty should be 10% of Total Contract value	Performance Bank Guaranty should be 5% instead of 10% as a normal practice.	RFP stipulation shall prevail
31	Clause 3.4.4, Sl.No 2	22/23	Financial Eligibility- Average Annual Turnover of 1.00 crore during last 3 audited financial years	Financial Eligibility should be minimum 5.0 Cr as against 1.0 Cr mentioned	RFP stipulation shall prevail
32	Clause 3.4.4 Sl.No 3	23	Net worth should be positive in any of the last 3 financial years	Net worth should be minimum 2.0 Cr	RFP stipulation shall prevail



**PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)**

33	Clause 3.4.5	23	Technical Evaluation Criteria-Should have successfully completed similar nature of work in any central/State Govt./Municipality of supply and commissioning of E-toilets	Why only the parties who have supplied E toilets are eligible. We also have the technology of E toilets and have deployed our products fitted with sensors for foot fall, panic button etc. It should be open for all if any party has the ability and capability and facility of manufacturing E-toilets.	RFP stipulation shall prevail
34	Clause 3.7.3	27	Insurance against injury to persons and damage to property- Cover not less than 25 Lacs	How is this calculated/arrived at as the total estimated contract value is 57 lacs. Moreover does this cover include the insurance during the maintenance period also?	The insurance clause 3.7 and sub clauses 3.7.1 to 3.7.4 are deleted.
35	Clause 4.1.2	28	General features- 1. Modular toilet placed on basis civil /metal construction	The civil work required is in whose scope? Is it in the bidder's scope? Clarify on this.	The entire installation including all civil work are within in the scope of bidders.
36	Clause 4.1.2	28	Functional Arrangements- 1. User can enter by inserting coin for pay and use or press switch for free access	Is the E toilet operated on pay and use basis or free of charge as both are mentioned in the document.	The system should operate on pay and use basis
37	Clause 4.2.1	33	Other features- 3. Perimeter beautification	Is beautification cost included in the estimated tender value of Rs. 57 lac	Yes. For the detailed specification for perimeter beautification , refer to reply to Sl.No 4 above
38	Clause 5	37	Payment Clause	Payment terms: We require 50% advance along with the work order, 35% on erection and installation and 15% on testing and commissioning	RFP stipulation shall prevail



**PUDUCHERRY SMART CITY DEVELOPMENT LIMITED (PSCDL)**

39	Clause 5.2	38	Final payment certificate .... Within 30 days after receiving completion certificate.....	The payments should be done within 15 days of invoice submission.	RFP stipulation shall prevail
40	Clause 5.4.1	38	Changes in quantities b) Whenever there is an order from PSCDL for additional quantity the contractor is bound to do it at the quoted rate.....	The additional units if required during the period of contract the price will be arrived at the prevailing rates of material, taxes and other levies if any	RFP stipulation shall prevail
41	Clause 6.2.1	42	Payment Certificate- a) Contract Price	Any increase in the tax should be paid in addition to the rate quoted at the time of bidding.	RFP stipulation shall prevail
42	Clause 6.2.5	45	Retention- Clauses a,b,c	The retention amount of 10% is high and should be lowered to 5%. More over refund of the 50% amount retained as per clause c is not acceptable. It should be returned every 3 months of contract period.	RFP stipulation shall prevail