

## DO's and DON'Ts for Bio-Toilet Maintenance in Open Line

### DO's:

SN	Items
01	Ensure J-brackets/C-Type mounting is in sound condition & all fasteners are intact.
02	Ensure sound condition of Rubber connector and availability of 120 mm dia SS clamp.
03	Ensure intactness of chlorinator unit and its pipe.
04	Ensure chlorine jacket is free from scale formation. Clean it, if required.
05	Ensure availability of chlorine/Kmno4 tablets in each trip. Provide if required.
06	Check condition of 8/10 mm dia SS Safety wire rope for proper securing and any damage near edges of Bio-Toilet tank. Maintain 5 mm gap between wire rope & tank body.
07	Ensure no leakage of fecal material from Rubber gasket/ Sealing due to blockage of inner pipe of chlorinator.
08	Ensure functionality of flush buttons/ lever & water taps for adequacy of flushing in pan
09	Ensure no foul smell inside Toilet.
10	Ensure overall cleanliness level in the Bio-Toilet.
11	Ensure availability of Stickers/Notices for Users and Maintenance staff in Hindi/English & regional language of the originating & destination station.
12	Ensure no choking in P-Trap/S-Trap.
13	Ensure operation of Ball valve in each round trip for proper opening & closing.
14	Ensure proper functioning of Ball valve operating mechanism.
15	Ensure no leakage of effluent from PTFE seal of ball valve.
16	Ensure availability of sufficient choke remover devices in the depot for removing P-Trap/S-trap choking.
17	Ensure that prescribed lab tests are being carried out timely and facilities are available
18	Ensure Trial monitoring as per Instructions given in CAMTECH Bio-Toilet Hand Book.
19	Ensure availability of Evacuation machine in working order in Coaching depot & evacuation record of tanks is being maintained properly.
20	Ensure availability of Dust bins in each Bio-Toilet as per RDSO Drg. No. CG-13031 & CG-13021.
21	Ensure Broad-casting of short video film on Bio-Toilet at passenger station for awareness of passengers.
22	Ensure provision of SS Jali/(Cross wire mesh) to avoid bottles/Garbage etc. in to commode pan.

<b>SN</b>	<b>Items</b>
23	Ensure availability of sufficient garbage picking tongs for easy removal of garbage and to avoid manual scavenging.
24	Ensure availability of universal foot pedal if required in coaching depot for operation of jammed ball valves.
25	Check whether foul smell is coming in rolling-in and rolling-out examinations. Attend toilet in depot.
26	Ensure Recharging of 60 Lts. Inoculum in the tank if lab sample of any toilet failing frequently in 3 consecutive testings.
27	Ensure filling of Bio-Toilet maintenance Proforma, Lab sample test Proforma-Annex-I & Field trial Proforma-Annex-II for Bio-Toilet coaches as per scheme.
28	Ensure whether sufficient staff have been trained in Bio-Toilet maintenance at CAMTECH/GWL.
29	Ensure Bio-Toilet tank height from Rail table is approx. 220 mm. Ensure Bio-Toilet tank is secured properly.
30	Analyze condition of corrosion of head stock near welding joint of J-Bracket
31	Wear gloves while handling bacterial culture ( Inoculum)
32	Clean hands with detergent/soap after handling of the bacteria
33	During storage of bacteria in containers, lid should be kept loose so that gas generated inside the container can escape easily.
34	Ensure AMOC guidelines are being followed strictly in the depot as recommended in CAMTECH Doc. IRCAMTECH/GWL/M/Bio-Toilet/AMOC/1.0-Aug-2015
35	Ensure that consolidated Test Reports are being sent to Sr DME timely for further communication to Railway Board & RDSO by Zonal Railways on 6 monthly basis.
36	Ensure that facilities required in coaching depot for maintenance of Bio-Toilet coaches are available as per para 25.0 of hand book for open line staff.
37	Ensure use of proper cleaning agents as prescribed by RDSO to avoid any adverse effect on bacteria in the Bio-Toilet tanks.
38	Ensure availability of sufficient consumables/spares as per the holding of Bio-Toilet coaches

### **DON'Ts:**

<b>SN</b>	<b>Items</b>
01	Do not mix detergents/Acids with Bacteria at any stage during use.
02	Do Not allow Bio-Toilet fitted coaches without ensuring charging of Inoculum
03	Do not allow choked Bio-Toilet tank in service
04	Do not allow by-passed bio toilet tank in service
05	Do not allow leakage from Rubber connector/colonized rubber gasket