

O/c



**Sai**

Make it  
better  
together

**24<sup>th</sup> March 2025**

To,  
The Karnataka State Pollution Control Board,  
Plot No. 42(B -2),  
Naubad Industrial Area,  
BIDAR – 585 402.

**Sub:** Submission of Bio medical waste annual returns in FORM-IV for the calendar year 2024,  
M/s Sai Life Sciences Limited., Unit-IV, plot No.79A,79B, 80A, 80B, 81A, 82 &130A,  
Kolhar industrial area, Bidar Taluk and District-585403,Karnataka State.

**Ref:** Biomedical management rules-2016.

Respected Sir,

With reference to the above subject, we are here by submitting the details of biomedical waste annual returns in FORM-IV for the year 2024.Please find the enclosed annexures in hard copy with respect to the above cited subject.

**Enclosed copy:**

- Form-IV (Biomedical waste annual report).
- Annexure 1.Summary of biomedical waste disposed.
- Annexure 2. Image of Biomedical waste storage room.
- Annexure 3. Biomedical waste management committee meetings.
- Annexure 4. Biomedical waste management training attendance sheet.
- Annexure 5. Biomedical waste management SOP

Kindly acknowledge receipt for the same.

Thanking you,

Yours faithfully,

For Sai Life Sciences Limited,

Authorized Signatory.



Cc To: The Member secretary, KSPCB, Parisara bhavan, Church street Bangalore- 560001.

**Sai Life Sciences Limited** (CIN: U24110TG 1999PLC030970)

Plot No. 79B, 80A, 82, 81-A, 80-B, Kolhar Industrial Area, Bidar-585 403, Karnataka, INDIA.

▶ Tel: +91 8482 232785/89 ▶ Fax: +91 8482 232239 ▶ info@sailife.com ▶ www.sailife.com

**Form - IV**  
**(See rule 13)**  
**ANNUAL REPORT**

To be submitted to the prescribed authority on or before 30<sup>th</sup> June every year for the period from January-2024 to December-2024 of the preceding year, by the occupier of health care facility (HCF) or common bio-medical waste treatment facility (CBWTF).

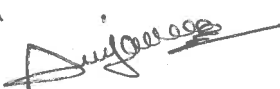
S.No	Particulars																																
1.	Particulars of the Occupier :																																
	(i) Name of the authorized person (occupier or operator of facility)	Mr. MV Anjaneyulu (DGM – HSE) Mail Id : environment_u4@sailife.com Phone No: 9108924038																															
	(ii) Name of <b>HCF</b> or <b>CBMWTF</b>	<b>M/s. SAI LIFE SCIENCES LIMITED</b>																															
	(iii) Address for Correspondence	Sai Life Sciences Ltd., Unit – IV, Plot No.79A,79B, 80A, 80B, 81A ,82 & 130A, Kolhar Industrial Area, Taluk : Bidar District : Bidar Pin code : 585403.																															
	(iv) Address of Facility	Plot No. 79A,79B, 80A, 80B, 81A ,82 & 130A, Kolhar Industrial Area, Taluk : Bidar District : Bidar Pin code: 585403.																															
	(v)Tel. No, Fax. No	08482-232239 , 08482232239, MOB: 9108924038																															
	(vi) E-mail ID	environment_u4@sailife.com																															
	(vii) URL of Website	www.sailifesciences.com																															
	(viii) GPS coordinates of <b>HCF</b> or <b>CBMWTF</b>	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Co-ordinates</th> <th>Directions</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17° 54.429'N and 77° 27.642'E</td> <td>South West</td> </tr> <tr> <td>B</td> <td>17° 54.390'N and 77° 27.695'E</td> <td>South</td> </tr> <tr> <td>C</td> <td>17° 54.422'N and 77° 27.906'E</td> <td>South East</td> </tr> <tr> <td>D</td> <td>17° 54.470'N and 77° 27.902'E</td> <td>North East</td> </tr> <tr> <td>E</td> <td>17° 54.472'N and 77° 27.855'E</td> <td>North East</td> </tr> <tr> <td>F</td> <td>17° 54.454'N and 77° 27.854'E</td> <td>North East</td> </tr> <tr> <td>G</td> <td>17° 54.489'N and 77° 27.816'E</td> <td>North East</td> </tr> <tr> <td>H</td> <td>17° 54.514'N and 77° 27.845'E</td> <td>North East</td> </tr> <tr> <td>I</td> <td>17° 54.559'N and 77° 27.753'E</td> <td>North</td> </tr> </tbody> </table>		Sl. No.	Co-ordinates	Directions	A	17° 54.429'N and 77° 27.642'E	South West	B	17° 54.390'N and 77° 27.695'E	South	C	17° 54.422'N and 77° 27.906'E	South East	D	17° 54.470'N and 77° 27.902'E	North East	E	17° 54.472'N and 77° 27.855'E	North East	F	17° 54.454'N and 77° 27.854'E	North East	G	17° 54.489'N and 77° 27.816'E	North East	H	17° 54.514'N and 77° 27.845'E	North East	I	17° 54.559'N and 77° 27.753'E	North
	Sl. No.	Co-ordinates	Directions																														
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I	17° 54.559'N and 77° 27.753'E	North																															
(ix) Ownership of <b>HCF</b> or <b>CBMWTF</b>	OHC (Occupational health center) and Microbiology lab																																
(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	Authorization No.: 50EO/BDR/BMW/2016- 17/485 Valid up to: One time Authorization.																																

	(xi). Status of Consents under Water Act and Air Act.	Consent order no: AW-332061 Valid up to: 30-June-2026			
2.	Type of Health Care Facility				
	(i) Bedded Hospital	OHC (Occupational Health center)			
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary hospital or any other)	Microbiology Lab			
	(iii) License number and its date of expiry	Authorization No.: 50 EO/BDR/BMW/2016-17/485. Valid up to: One time Authorization.			
3.	<b>Details of CBMWTF</b>				
	(i).Number healthcare facilities covered by CBMWTF		N/A		
	(ii). No of beds covered by CBMWTF		N/A		
	(iii). Installed treatment and disposal capacity of CBMWTF:		N/A		
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF		N/A		
4.	Quantity of waste generated or <u>disposed</u> in Kg per annum (on monthly average basis)		Yellow Category : 1636.90 Kgs / Annum or 4.472 Kgs/Day (refer to annexure-1).		
			Red Category : Nil		
			White : Nil		
			Blue Category : Nil		
			General Solid waste : Nil		
5.	<b>Details of the Storage, treatment, transportation, processing and Disposal Facility</b>				
	(i) Details of the on-site storage facility	Size : Dedicated storage room provided for Biomedical waste. (Refer to annexure-2).			
		Capacity: Adequate storage facility provided.			
		Provision of on-site storage : (cold storage or any other provision) – Provided the closed storage room			
6.	Disposal facilities	Type of treatment equipment	No of units	Capacity Kg/day	Quantity treated or disposed Kg per annum
		Incinerators			
		Plasma Pyrolysis			
		Autoclaves			
		Microwave			
		Hydroclave			
		Shredder			

		Needle tip cutter or Destroyer – N/A Sharps encapsulation - N/A concrete pit Deep burial pits: Chemical disinfection: - N/A Any other treatment equipment: N/A
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	N/A
	(iv) No of vehicles used for collection and transportation of biomedical waste	N/A
	(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum	<b>Quantity generated where disposed</b> Incineration Ash - N/A ETP Sludge - N/A
	(vi) Name of the Common Bio- Medical Waste Treatment Facility Operator through which wastes are disposed of	ENVIRO BIOTECH, SY NO.19, Dhanura Village (Rodnoor), Balki Tq, Bidar Dist.
	(vii) List of member HCF not handed over bio-medical waste.	N/A
7.	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period.	Yes, we have conducted half yearly BMW committee meeting. <b>(Refer to annexure-3).</b>
8.	Details trainings conducted on BMW	
	(i) Number of trainings conducted on BMW Management.	02 - Attached training attendance sheet,
	(ii) number of personnel trained	20 (Attached as <b>annexure-4</b> ).
	(iii) number of personnel trained at the time of induction	04 Members
	(iv) number of personnel not undergone any training so far	NA
	(v) whether standard manual for training is available?	Yes; SOP is available - SOP No: 07-56. (Biomedical waste management) , refer to <b>annexure-5</b>
	(vi) any other information)	N/A
9.	Details of the accident occurred during the year	Did not happened.
	(i) Number of Accidents occurred	NIL
	(ii) Number of the persons affected	NIL
	(iii) Remedial Action taken (Please attach details if any)	N/A
	(iv) Any Fatality occurred, details.	NIL

10.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?	N/A
11.	Details of Continuous online emission monitoring systems installed	N/A
12.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?	N/A
13.	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	N/A
14.	Any other relevant information	(Air Pollution Control Devices attached with the Incinerator) - N/A

Certified that the above report is for the period from **January-2024 to December -2024**

*for*  


Date: 26-11-2025  
Place: Bidar

Name and Signature of the Head of the  
Institution / Industry

**Annexure 1.**  
**Summary of biomedical waste disposed.**

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

Sl.No	Date	Disposed quantity in Kgs	Category	Name of the disposal facility
1	01-Jan-24	4.0	Yellow	Enviro Biotech
2	02-Jan-24	5.0	Yellow	Enviro Biotech
3	03-Jan-24	4.0	Yellow	Enviro Biotech
4	04-Jan-24	4.0	Yellow	Enviro Biotech
5	05-Jan-24	4.0	Yellow	Enviro Biotech
6	06-Jan-24	4.0	Yellow	Enviro Biotech
7	07-Jan-24	4.0	Yellow	Enviro Biotech
8	08-Jan-24	4.0	Yellow	Enviro Biotech
9	09-Jan-24	4.0	Yellow	Enviro Biotech
10	10-Jan-24	4.0	Yellow	Enviro Biotech
11	11-Jan-24	4.0	Yellow	Enviro Biotech
12	12-Jan-24	4.0	Yellow	Enviro Biotech
13	13-Jan-24	4.0	Yellow	Enviro Biotech
14	14-Jan-24	4.0	Yellow	Enviro Biotech
15	15-Jan-24	5.0	Yellow	Enviro Biotech
16	16-Jan-24	0.0	Yellow	Enviro Biotech
17	17-Jan-24	4.0	Yellow	Enviro Biotech
18	18-Jan-24	4.0	Yellow	Enviro Biotech
19	19-Jan-24	4.0	Yellow	Enviro Biotech
20	20-Jan-24	4.0	Yellow	Enviro Biotech
21	21-Jan-24	4.0	Yellow	Enviro Biotech
22	22-Jan-24	5.0	Yellow	Enviro Biotech
23	24-Jan-24	4.0	Yellow	Enviro Biotech
24	24-Jan-24	5.0	Yellow	Enviro Biotech
25	25-Jan-24	4.0	Yellow	Enviro Biotech
26	26-Jan-24	5.5	Yellow	Enviro Biotech
27	27-Jan-24	6.0	Yellow	Enviro Biotech
28	28-Jan-24	5.0	Yellow	Enviro Biotech
29	29-Jan-24	5.0	Yellow	Enviro Biotech
30	30-Jan-24	5.5	Yellow	Enviro Biotech
31	31-Jan-24	4.0	Yellow	Enviro Biotech
32	01-Feb-24	4.5	Yellow	Enviro Biotech
33	02-Feb-24	4.0	Yellow	Enviro Biotech
34	03-Feb-24	6.0	Yellow	Enviro Biotech
35	04-Feb-24	4.0	Yellow	Enviro Biotech
36	05-Feb-24	4.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

37	06-Feb-24	4.5	Yellow	Enviro Biotech
38	07-Feb-24	4.0	Yellow	Enviro Biotech
39	08-Feb-24	7.5	Yellow	Enviro Biotech
40	09-Feb-24	4.5	Yellow	Enviro Biotech
41	10-Feb-24	5.0	Yellow	Enviro Biotech
42	11-Feb-24	5.0	Yellow	Enviro Biotech
43	12-Feb-24	5.5	Yellow	Enviro Biotech
44	13-Feb-24	4.5	Yellow	Enviro Biotech
45	14-Feb-24	4.0	Yellow	Enviro Biotech
46	15-Feb-24	4.0	Yellow	Enviro Biotech
47	16-Feb-24	0.0	Yellow	Enviro Biotech
48	17-Feb-24	8.0	Yellow	Enviro Biotech
49	18-Feb-24	4.0	Yellow	Enviro Biotech
50	19-Feb-24	4.5	Yellow	Enviro Biotech
51	20-Feb-24	4.0	Yellow	Enviro Biotech
52	21-Feb-24	4.0	Yellow	Enviro Biotech
53	22-Feb-24	4.5	Yellow	Enviro Biotech
54	24-Feb-24	5.5	Yellow	Enviro Biotech
55	24-Feb-24	4.5	Yellow	Enviro Biotech
56	25-Feb-24	5.0	Yellow	Enviro Biotech
57	26-Feb-24	3.5	Yellow	Enviro Biotech
58	27-Feb-24	4.0	Yellow	Enviro Biotech
59	28-Feb-24	4.0	Yellow	Enviro Biotech
60	29-Feb-24	4.0	Yellow	Enviro Biotech
61	01-Mar-24	4.0	Yellow	Enviro Biotech
62	02-Mar-24	4.0	Yellow	Enviro Biotech
63	03-Mar-24	5.0	Yellow	Enviro Biotech
64	04-Mar-24	3.5	Yellow	Enviro Biotech
65	05-Mar-24	3.5	Yellow	Enviro Biotech
66	06-Mar-24	4.0	Yellow	Enviro Biotech
67	07-Mar-24	4.5	Yellow	Enviro Biotech
68	08-Mar-24	4.5	Yellow	Enviro Biotech
69	09-Mar-24	4.0	Yellow	Enviro Biotech
70	10-Mar-24	8.0	Yellow	Enviro Biotech
71	11-Mar-24	7.5	Yellow	Enviro Biotech
72	12-Mar-24	6.0	Yellow	Enviro Biotech
73	13-Mar-24	5.5	Yellow	Enviro Biotech
74	14-Mar-24	4.0	Yellow	Enviro Biotech
75	15-Mar-24	6.0	Yellow	Enviro Biotech



**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

76	16-Mar-24	6.0	Yellow	Enviro Biotech
77	17-Mar-24	8.0	Yellow	Enviro Biotech
78	18-Mar-24	4.0	Yellow	Enviro Biotech
79	19-Mar-24	4.0	Yellow	Enviro Biotech
80	20-Mar-24	4.0	Yellow	Enviro Biotech
81	21-Mar-24	3.0	Yellow	Enviro Biotech
82	22-Mar-24	3.0	Yellow	Enviro Biotech
83	24-Mar-24	4.0	Yellow	Enviro Biotech
84	24-Mar-24	4.0	Yellow	Enviro Biotech
85	25-Mar-24	5.5	Yellow	Enviro Biotech
86	26-Mar-24	6.0	Yellow	Enviro Biotech
87	27-Mar-24	6.0	Yellow	Enviro Biotech
88	28-Mar-24	3.0	Yellow	Enviro Biotech
89	29-Mar-24	3.0	Yellow	Enviro Biotech
90	30-Mar-24	5.0	Yellow	Enviro Biotech
91	31-Mar-24	4.0	Yellow	Enviro Biotech
92	01-Apr-24	4.0	Yellow	Enviro Biotech
93	02-Apr-24	6.0	Yellow	Enviro Biotech
94	03-Apr-24	6.0	Yellow	Enviro Biotech
95	04-Apr-24	4.0	Yellow	Enviro Biotech
96	05-Apr-24	5.0	Yellow	Enviro Biotech
97	06-Apr-24	6.0	Yellow	Enviro Biotech
98	07-Apr-24	6.0	Yellow	Enviro Biotech
99	08-Apr-24	6.0	Yellow	Enviro Biotech
100	09-Apr-24	4.0	Yellow	Enviro Biotech
101	10-Apr-24	0.0	Yellow	Enviro Biotech
102	11-Apr-24	4.0	Yellow	Enviro Biotech
103	12-Apr-24	4.0	Yellow	Enviro Biotech
104	13-Apr-24	3.0	Yellow	Enviro Biotech
105	14-Apr-24	3.5	Yellow	Enviro Biotech
106	15-Apr-24	4.0	Yellow	Enviro Biotech
107	16-Apr-24	4.0	Yellow	Enviro Biotech
108	17-Apr-24	4.0	Yellow	Enviro Biotech
109	18-Apr-24	4.0	Yellow	Enviro Biotech
110	19-Apr-24	6.0	Yellow	Enviro Biotech
111	20-Apr-24	4.5	Yellow	Enviro Biotech
112	21-Apr-24	4.0	Yellow	Enviro Biotech
113	22-Apr-24	5.5	Yellow	Enviro Biotech
114	24-Apr-24	4.5	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

115	24-Apr-24	8.5	Yellow	Enviro Biotech
116	25-Apr-24	5.0	Yellow	Enviro Biotech
117	26-Apr-24	4.0	Yellow	Enviro Biotech
118	27-Apr-24	4.0	Yellow	Enviro Biotech
119	28-Apr-24	8.0	Yellow	Enviro Biotech
120	29-Apr-24	4.5	Yellow	Enviro Biotech
121	30-Apr-24	4.0	Yellow	Enviro Biotech
122	01-May-24	5.5	Yellow	Enviro Biotech
123	02-May-24	8.0	Yellow	Enviro Biotech
124	03-May-24	8.1	Yellow	Enviro Biotech
125	04-May-24	0.0	Yellow	Enviro Biotech
126	05-May-24	6.0	Yellow	Enviro Biotech
127	06-May-24	8.0	Yellow	Enviro Biotech
128	07-May-24	0.0	Yellow	Enviro Biotech
129	08-May-24	4.0	Yellow	Enviro Biotech
130	09-May-24	8.0	Yellow	Enviro Biotech
131	10-May-24	6.0	Yellow	Enviro Biotech
132	11-May-24	6.0	Yellow	Enviro Biotech
133	12-May-24	4.0	Yellow	Enviro Biotech
134	13-May-24	4.0	Yellow	Enviro Biotech
135	14-May-24	4.0	Yellow	Enviro Biotech
136	15-May-24	4.0	Yellow	Enviro Biotech
137	16-May-24	4.0	Yellow	Enviro Biotech
138	17-May-24	4.5	Yellow	Enviro Biotech
139	18-May-24	5.0	Yellow	Enviro Biotech
140	19-May-24	4.5	Yellow	Enviro Biotech
141	20-May-24	4.5	Yellow	Enviro Biotech
142	21-May-24	4.0	Yellow	Enviro Biotech
143	22-May-24	4.5	Yellow	Enviro Biotech
144	24-May-24	4.5	Yellow	Enviro Biotech
145	24-May-24	4.0	Yellow	Enviro Biotech
146	25-May-24	4.0	Yellow	Enviro Biotech
147	26-May-24	4.5	Yellow	Enviro Biotech
148	27-May-24	4.0	Yellow	Enviro Biotech
149	28-May-24	6.0	Yellow	Enviro Biotech
150	29-May-24	5.5	Yellow	Enviro Biotech
151	30-May-24	3.0	Yellow	Enviro Biotech
152	31-May-24	3.5	Yellow	Enviro Biotech
153	01-Jun-24	4.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

154	02-Jun-24	6.0	Yellow	Enviro Biotech
155	03-Jun-24	3.0	Yellow	Enviro Biotech
156	04-Jun-24	4.0	Yellow	Enviro Biotech
157	05-Jun-24	4.0	Yellow	Enviro Biotech
158	06-Jun-24	4.0	Yellow	Enviro Biotech
159	07-Jun-24	6.0	Yellow	Enviro Biotech
160	08-Jun-24	4.0	Yellow	Enviro Biotech
161	09-Jun-24	4.0	Yellow	Enviro Biotech
162	10-Jun-24	2.0	Yellow	Enviro Biotech
163	11-Jun-24	4.5	Yellow	Enviro Biotech
164	12-Jun-24	3.0	Yellow	Enviro Biotech
165	13-Jun-24	4.0	Yellow	Enviro Biotech
166	14-Jun-24	4.0	Yellow	Enviro Biotech
167	15-Jun-24	3.0	Yellow	Enviro Biotech
168	16-Jun-24	6.0	Yellow	Enviro Biotech
169	17-Jun-24	5.0	Yellow	Enviro Biotech
170	18-Jun-24	4.5	Yellow	Enviro Biotech
171	19-Jun-24	5.0	Yellow	Enviro Biotech
172	20-Jun-24	3.0	Yellow	Enviro Biotech
173	21-Jun-24	2.5	Yellow	Enviro Biotech
174	22-Jun-24	5.0	Yellow	Enviro Biotech
175	24-Jun-24	3.0	Yellow	Enviro Biotech
176	24-Jun-24	4.0	Yellow	Enviro Biotech
177	25-Jun-24	6.0	Yellow	Enviro Biotech
178	26-Jun-24	4.0	Yellow	Enviro Biotech
179	27-Jun-24	3.0	Yellow	Enviro Biotech
180	28-Jun-24	4.0	Yellow	Enviro Biotech
181	29-Jun-24	4.0	Yellow	Enviro Biotech
182	30-Jun-24	6.0	Yellow	Enviro Biotech
183	01-Jul-24	3.0	Yellow	Enviro Biotech
184	02-Jul-24	4.0	Yellow	Enviro Biotech
185	03-Jul-24	3.0	Yellow	Enviro Biotech
186	04-Jul-24	6.0	Yellow	Enviro Biotech
187	05-Jul-24	3.5	Yellow	Enviro Biotech
188	06-Jul-24	4.0	Yellow	Enviro Biotech
189	07-Jul-24	4.0	Yellow	Enviro Biotech
190	08-Jul-24	3.5	Yellow	Enviro Biotech
191	09-Jul-24	4.0	Yellow	Enviro Biotech
192	10-Jul-24	4.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

193	11-Jul-24	3.5	Yellow	Enviro Biotech
194	12-Jul-24	4.0	Yellow	Enviro Biotech
195	13-Jul-24	4.0	Yellow	Enviro Biotech
196	14-Jul-24	2.0	Yellow	Enviro Biotech
197	15-Jul-24	6.5	Yellow	Enviro Biotech
198	16-Jul-24	4.0	Yellow	Enviro Biotech
199	17-Jul-24	3.0	Yellow	Enviro Biotech
200	18-Jul-24	4.5	Yellow	Enviro Biotech
201	19-Jul-24	5.0	Yellow	Enviro Biotech
202	20-Jul-24	5.0	Yellow	Enviro Biotech
203	21-Jul-24	2.5	Yellow	Enviro Biotech
204	22-Jul-24	3.0	Yellow	Enviro Biotech
205	24-Jul-24	4.0	Yellow	Enviro Biotech
206	24-Jul-24	7.0	Yellow	Enviro Biotech
207	25-Jul-24	3.0	Yellow	Enviro Biotech
208	26-Jul-24	4.0	Yellow	Enviro Biotech
209	27-Jul-24	4.0	Yellow	Enviro Biotech
210	28-Jul-24	4.0	Yellow	Enviro Biotech
211	29-Jul-24	4.0	Yellow	Enviro Biotech
212	30-Jul-24	3.0	Yellow	Enviro Biotech
213	31-Jul-24	4.0	Yellow	Enviro Biotech
214	01-Aug-24	4.0	Yellow	Enviro Biotech
215	02-Aug-24	3.5	Yellow	Enviro Biotech
216	03-Aug-24	5.0	Yellow	Enviro Biotech
217	04-Aug-24	4.0	Yellow	Enviro Biotech
218	05-Aug-24	4.5	Yellow	Enviro Biotech
219	06-Aug-24	4.0	Yellow	Enviro Biotech
220	07-Aug-24	4.0	Yellow	Enviro Biotech
221	08-Aug-24	3.5	Yellow	Enviro Biotech
222	09-Aug-24	0.0	Yellow	Enviro Biotech
223	10-Aug-24	0.0	Yellow	Enviro Biotech
224	11-Aug-24	2.0	Yellow	Enviro Biotech
225	12-Aug-24	3.0	Yellow	Enviro Biotech
226	13-Aug-24	4.0	Yellow	Enviro Biotech
227	14-Aug-24	4.5	Yellow	Enviro Biotech
228	15-Aug-24	3.5	Yellow	Enviro Biotech
229	16-Aug-24	4.0	Yellow	Enviro Biotech
230	17-Aug-24	5.0	Yellow	Enviro Biotech
231	18-Aug-24	4.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

232	19-Aug-24	4.5	Yellow	Enviro Biotech
233	20-Aug-24	4.0	Yellow	Enviro Biotech
234	21-Aug-24	4.0	Yellow	Enviro Biotech
235	22-Aug-24	4.0	Yellow	Enviro Biotech
236	24-Aug-24	3.5	Yellow	Enviro Biotech
237	24-Aug-24	4.0	Yellow	Enviro Biotech
238	25-Aug-24	4.5	Yellow	Enviro Biotech
239	26-Aug-24	3.0	Yellow	Enviro Biotech
240	27-Aug-24	3.0	Yellow	Enviro Biotech
241	28-Aug-24	3.0	Yellow	Enviro Biotech
242	29-Aug-24	3.5	Yellow	Enviro Biotech
243	30-Aug-24	5.0	Yellow	Enviro Biotech
244	31-Aug-24	4.5	Yellow	Enviro Biotech
245	01-Sep-24	8.0	Yellow	Enviro Biotech
246	02-Sep-24	4.5	Yellow	Enviro Biotech
247	03-Sep-24	8.0	Yellow	Enviro Biotech
248	04-Sep-24	4.5	Yellow	Enviro Biotech
249	05-Sep-24	4.0	Yellow	Enviro Biotech
250	06-Sep-24	4.0	Yellow	Enviro Biotech
251	07-Sep-24	4.0	Yellow	Enviro Biotech
252	08-Sep-24	4.0	Yellow	Enviro Biotech
253	09-Sep-24	4.0	Yellow	Enviro Biotech
254	10-Sep-24	4.5	Yellow	Enviro Biotech
255	11-Sep-24	5.0	Yellow	Enviro Biotech
256	12-Sep-24	5.2	Yellow	Enviro Biotech
257	13-Sep-24	4.0	Yellow	Enviro Biotech
258	14-Sep-24	6.0	Yellow	Enviro Biotech
259	15-Sep-24	6.0	Yellow	Enviro Biotech
260	16-Sep-24	4.5	Yellow	Enviro Biotech
261	17-Sep-24	4.0	Yellow	Enviro Biotech
262	18-Sep-24	4.0	Yellow	Enviro Biotech
263	19-Sep-24	6.0	Yellow	Enviro Biotech
264	20-Sep-24	5.0	Yellow	Enviro Biotech
265	21-Sep-24	4.0	Yellow	Enviro Biotech
266	22-Sep-24	4.0	Yellow	Enviro Biotech
267	24-Sep-24	5.0	Yellow	Enviro Biotech
268	24-Sep-24	4.0	Yellow	Enviro Biotech
269	25-Sep-24	4.0	Yellow	Enviro Biotech
270	26-Sep-24	4.5	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

271	27-Sep-24	4.0	Yellow	Enviro Biotech
272	28-Sep-24	4.0	Yellow	Enviro Biotech
273	29-Sep-24	5.0	Yellow	Enviro Biotech
274	30-Sep-24	4.5	Yellow	Enviro Biotech
275	01-Oct-24	5.0	Yellow	Enviro Biotech
276	02-Oct-24	2.0	Yellow	Enviro Biotech
277	03-Oct-24	8.0	Yellow	Enviro Biotech
278	04-Oct-24	6.0	Yellow	Enviro Biotech
279	05-Oct-24	5.0	Yellow	Enviro Biotech
280	06-Oct-24	5.0	Yellow	Enviro Biotech
281	07-Oct-24	4.0	Yellow	Enviro Biotech
282	08-Oct-24	4.0	Yellow	Enviro Biotech
283	09-Oct-24	2.5	Yellow	Enviro Biotech
284	10-Oct-24	6.0	Yellow	Enviro Biotech
285	11-Oct-24	0.0	Yellow	Enviro Biotech
286	12-Oct-24	7.0	Yellow	Enviro Biotech
287	13-Oct-24	5.0	Yellow	Enviro Biotech
288	14-Oct-24	4.0	Yellow	Enviro Biotech
289	15-Oct-24	5.0	Yellow	Enviro Biotech
290	16-Oct-24	4.0	Yellow	Enviro Biotech
291	17-Oct-24	4.0	Yellow	Enviro Biotech
292	18-Oct-24	4.0	Yellow	Enviro Biotech
293	19-Oct-24	5.0	Yellow	Enviro Biotech
294	20-Oct-24	6.0	Yellow	Enviro Biotech
295	21-Oct-24	7.0	Yellow	Enviro Biotech
296	22-Oct-24	4.0	Yellow	Enviro Biotech
297	24-Oct-24	4.0	Yellow	Enviro Biotech
298	24-Oct-24	4.0	Yellow	Enviro Biotech
299	25-Oct-24	4.0	Yellow	Enviro Biotech
300	26-Oct-24	4.0	Yellow	Enviro Biotech
301	27-Oct-24	4.0	Yellow	Enviro Biotech
302	28-Oct-24	5.0	Yellow	Enviro Biotech
303	29-Oct-24	5.0	Yellow	Enviro Biotech
304	30-Oct-24	5.0	Yellow	Enviro Biotech
305	31-Oct-24	4.0	Yellow	Enviro Biotech
306	01-Nov-24	5.0	Yellow	Enviro Biotech
307	02-Nov-24	4.0	Yellow	Enviro Biotech
308	03-Nov-24	4.0	Yellow	Enviro Biotech
309	04-Nov-24	3.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

310	05-Nov-24	4.0	Yellow	Enviro Biotech
311	06-Nov-24	6.0	Yellow	Enviro Biotech
312	07-Nov-24	4.0	Yellow	Enviro Biotech
313	08-Nov-24	5.0	Yellow	Enviro Biotech
314	09-Nov-24	4.0	Yellow	Enviro Biotech
315	10-Nov-24	4.0	Yellow	Enviro Biotech
316	11-Nov-24	7.0	Yellow	Enviro Biotech
317	12-Nov-24	6.0	Yellow	Enviro Biotech
318	13-Nov-24	5.0	Yellow	Enviro Biotech
319	14-Nov-24	5.0	Yellow	Enviro Biotech
320	15-Nov-24	4.5	Yellow	Enviro Biotech
321	16-Nov-24	6.0	Yellow	Enviro Biotech
322	17-Nov-24	6.0	Yellow	Enviro Biotech
323	18-Nov-24	4.6	Yellow	Enviro Biotech
324	19-Nov-24	4.0	Yellow	Enviro Biotech
325	20-Nov-24	4.0	Yellow	Enviro Biotech
326	21-Nov-24	4.0	Yellow	Enviro Biotech
327	22-Nov-24	4.0	Yellow	Enviro Biotech
328	24-Nov-24	4.5	Yellow	Enviro Biotech
329	24-Nov-24	5.0	Yellow	Enviro Biotech
330	25-Nov-24	4.5	Yellow	Enviro Biotech
331	26-Nov-24	4.0	Yellow	Enviro Biotech
332	27-Nov-24	6.0	Yellow	Enviro Biotech
333	28-Nov-24	5.0	Yellow	Enviro Biotech
334	29-Nov-24	5.0	Yellow	Enviro Biotech
335	30-Nov-24	6.0	Yellow	Enviro Biotech
336	01-Dec-24	5.0	Yellow	Enviro Biotech
337	02-Dec-24	5.5	Yellow	Enviro Biotech
338	03-Dec-24	6.0	Yellow	Enviro Biotech
339	04-Dec-24	5.0	Yellow	Enviro Biotech
340	05-Dec-24	6.0	Yellow	Enviro Biotech
341	06-Dec-24	6.0	Yellow	Enviro Biotech
342	07-Dec-24	6.0	Yellow	Enviro Biotech
343	08-Dec-24	6.0	Yellow	Enviro Biotech
344	09-Dec-24	5.0	Yellow	Enviro Biotech
345	10-Dec-24	5.0	Yellow	Enviro Biotech
346	11-Dec-24	5.0	Yellow	Enviro Biotech
347	12-Dec-24	4.5	Yellow	Enviro Biotech
348	13-Dec-24	6.0	Yellow	Enviro Biotech

**ANNEXURE-1**  
**SUMMARY OF BIOMEDICAL WASTE DISPOSED FOR THE YEAR 2024.**

349	14-Dec-24	5.0	Yellow	Enviro Biotech
350	15-Dec-24	4.0	Yellow	Enviro Biotech
351	16-Dec-24	6.0	Yellow	Enviro Biotech
352	17-Dec-24	5.0	Yellow	Enviro Biotech
353	18-Dec-24	4.5	Yellow	Enviro Biotech
354	19-Dec-24	5.0	Yellow	Enviro Biotech
355	20-Dec-24	4.0	Yellow	Enviro Biotech
356	21-Dec-24	4.0	Yellow	Enviro Biotech
357	22-Dec-24	5.5	Yellow	Enviro Biotech
358	24-Dec-24	4.0	Yellow	Enviro Biotech
359	24-Dec-24	6.5	Yellow	Enviro Biotech
360	25-Dec-24	4.0	Yellow	Enviro Biotech
361	26-Dec-24	5.0	Yellow	Enviro Biotech
362	27-Dec-24	4.5	Yellow	Enviro Biotech
363	28-Dec-24	0.0	Yellow	Enviro Biotech
364	29-Dec-24	10.0	Yellow	Enviro Biotech
365	30-Dec-24	4.0	Yellow	Enviro Biotech
366	31-Dec-24	4.0	Yellow	Enviro Biotech

**Quantity of Biomedical Waste (BMW) disposed in Year 2024: 1636.90 Kgs.**




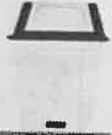
**On average of BMW disposed/ Day: 4.472 Kgs.**



**Annexure 2.**  
**Image of Biomedical waste storage room.**



## Category of Biomedical waste

S.No	CATEGORY	TYPE OF WASTE
	<b>Yellow colour</b> 	A. Human Anatomical Waste B. Animal Anatomical Waste C. Soiled Waste D. Expired or Discarded Medicines: E. Chemical Waste: F. Chemical Liquid Waste : G. Discarded linen, mattresses, beddings contaminated with blood or body fluid. H. Microbiology, Biotechnology and other clinical laboratory waste.
	<b>Blue colour</b> 	(a) <b>Glassware:</b> Broken or discarded and contaminated glass including medicine vials those contaminated with cytotoxic wastes. (b) <b>Metallic Body Implants</b>
	<b>Red colour</b> 	<b>Contaminated Waste (Recyclable) :</b> Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacutainers with their needles cut and glove.
	<b>White colour</b> 	<b>Waste sharps including Metals:</b> Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps



**Annexure 3.**  
**Biomedical waste management committee**  
**meetings.**








### MINUTES OF BIOMEDICAL WASTE MANAGEMENT COMMITTEE MEETING

Department: HSE, OHC and QC -Microbiology

Meeting date: 15-Jul-2024

Time: 13:00 to 13:30 hours

The following committee members were attended the meeting:

S.No	Name	Designation	Dept.	Role	Signature
1.	MV Anjaneyulu	DGM	HSE	BMWM Committee Chairman	 07/15/2024
2.	Dr.Basavaraj Dabke	OHC Doctor	Admin	BMWM Secretary	 15-Jul-2024
3.	Arvind.K	Manager	HSE	BMWM committee Member	 15-Jul-2024
4.	Anjanayya Patri	Sr-Manager	Microbiology	BMWM committee Member	 15-Jul-2024
5.	Paulraj	Male Nurse	Admin	BMWM committee Member	 15-Jul-2024
6.	Raghavendra.P	Dy-Manager	HSE	BMWM committee Member	 15-Jul-2024
7.	Erappa Reddy	Sr-Executive	HSE	BMWM committee Member	 15-Jul-2024

**STATUS OF BMW MANAGEMENT COMMITTEE MEETING**

BMW Management committee meeting held on: 15-Jul-2024

Sl.No	Point	Recommendation	Responsibility	Target date	Status as on
1	Ensure compliance of PPE while handling of BMW	Proper PPE using to handling of BMW and training to be arranged	Erappa Reddy	18-Aug-2024	Completed
2	Bio medical waste storage bins condition to be checked	Check the biomedical waste storage bins	Raghavendra.P	25-Jul-2024	Completed
3	Display of BMW authorization copy	Authorization copy to be displayed the proponent places	Raghavendra.P	20-Jul-2024	Completed
4	Needle cutter for syringes	Needle cutter to be provided	Arvind. K	30-Sep-24	Completed

Report prepared and circulated to all members and concern heads for their information and follow-up for compliance.

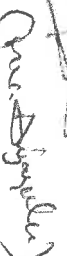
Prepared by:  
Member:

P. Raghavendra



30-Sep-2024

Approved by  
Chairman



30/Sep/2024



Corporate

Reference SOP No: & Title 99-06, Training

TRAINING SUMMARY AND ATTENDANCE RECORD

Title : Training of Use 'PPE' for BMW handlers Document Number: NA Version: NA  
Date : Aug-18-2024 Unit: IV  
Trainer: Erappa Reddy Time: From 13:30 (Hours) To 14:00 (Hours)  
Type of Training OJT

S. No	Name of the Employee	Emp. Code No.	Unit/ Department	Designation	Signature with Date
01	Dhananjay	1962(SBS)	IV/ETP	Helper	Dhananjay
02	Santosh	1742(SBS)	IV/ETP	Helper	Santosh
03	Mahesh	1890(SBS)	IV/ETP	Helper	Mahesh
04	Shirajji	934(VPS)	IV/ETP	Helper	Shirajji
05	Basappa Somanay	1471(SBS)	IV/ETP	Helper	Basappa
06	Ramesh	1581(SBS)	IV/ETP	Helper	Ramesh
07	Raj Kumar	1957(SBS)	IV/ETP	Helper	Raj Kumar
08	Akash	1705(SBS)	IV/ETP	Helper	Akash
09	Akhil	1729(SBS)	IV/ETP	Helper	Akhil
10	Suresh	851(VPS)	IV/ETP	Helper	Suresh
11	Chenababu	1506(SBS)	IV/ETP	Helper	Chenababu
12	Arunde patel	1814(SBS)	IV/ETP	Helper	Arunde patel
1					

Summary of Training:

Explained what is the PPE, PPE means personal protective Equipment  
Any working time wear the PPE ex: Helmet, Goggles, gloves, No earmuffs  
ear plug. working places without PPE don't work.

Signature of the Trainer:

Erappa Reddy

F-99-025

Version: 05

Printed By : Erappa Basappa Ranjari  
Printed document is valid for 15 days

Effective Date: 05-23-2018

Page 1 of 1

Printed On : 17/Aug/2024 11:48:57  
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Note : Check its validity before use



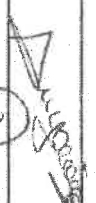


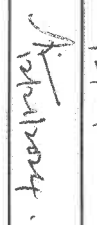
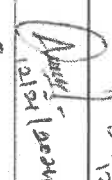
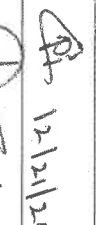

**MINUTES OF BIOMEDICAL WASTE MANAGEMENT COMMITTEE MEETING**

Department: HSE, OHC and QC -Microbiology

Meeting date: 21 - Dec - 2024

Time: 14:00 To 14:30 hours

The following committee members were attended the meeting.

S.No	Name	Designation	Dept.	Role	Signature
1.	MV Anjaneyulu	DGM	HSE	BMWM Committee Chairman	 12/21/2024
2.	Dr.Basavaraj Dabke	OHC Doctor	Admin	BMWM Secretary	 12/21/24
3.	Arvind.K	Manager	HSE	BMWM committee Member	 12/21/24
4.	Anjanayya Patri	Sr-Manager	Microbiology	BMWM committee Member	 12/21/2024
5.	Akhilesh	Male Nurse	Admin	BMWM committee Member	 12/21/2024
6.	Raghavendra.P	Dy-Manager	HSE	BMWM committee Member	 12/21/24
7.	Erappa Reddy	Sr-Executive	HSE	BMWM committee Member	 12/21/24

**STATUS OF BMW MANAGEMENT COMMITTEE MEETING**

BMW Management committee meeting held on: 21-Dec-2024

S.No	Point	Recommendation	Responsibility	Target date	Status as on
1	Provide the Biomedical waste collection bins	Existing bins to be replaced with new bins	Arvind.K	30-Dec-2024	Completed
2	Ensure compliance of PPE while handling of BMW	Proper PPE using to handling of BMW	Erappa Reddy	26-Dec-2024	Completed
4	Training need to conduct to Bio medical waste handlers.	Training to be arranged	Raghavendra	21-Dec-2024	Completed
5	Checking the vaccination records of biomedical waste handlers	Check the Vaccination records	Raghavendra	27-Dec-2024	Completed

Report prepared and circulated to all members and concern heads for their information and follow-up for compliance.

Prepared by:  
Member:

P. Raghavendra



30-Dec-2024

Approved by  
Chairman/Secretary:

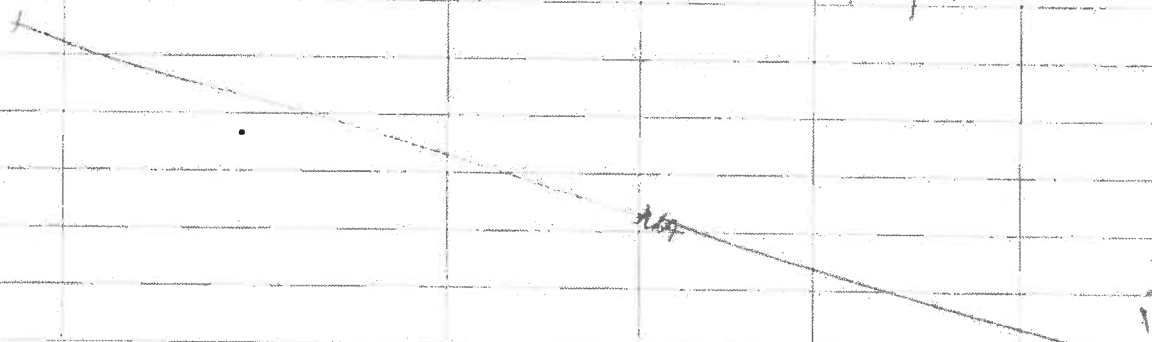


(P. Raghavendra)

20/Dec/2024

TRAINING SUMMARY AND ATTENDANCE RECORD

Title: Biomedical waste handling safety Document Number: 07-26 Version: 01  
 Date: 21-Dec-2024 Unit: IV  
 Trainer: M. Anil Kumar Time: From 10.10 (Hours) To 10.40 (Hours)  
 Type of Training: DJRT

S. No	Name of the Employee	Emp. Code No.	Unit/ Department	Designation	Signature with Date
01.	Vmesh	483 (RS)	IV / ETP	Helper	U
02.	Santosh	1742 (SBS)	IV / ETP	Helper	Sm.
03.	Rajsekhar	1845 (SBS)	IV / ETP	Helper	M
04.	Rajkumar	1957 (SBS)	IV / ETP	Helper	R
05.	Ramesh	1581 (SBS)	IV / ETP	Helper	B
06.	Rameya Suman	1925 (SBS)	IV / ETP	Helper	Rame
07.	Shiraji	934 (VPS)	IV / ETP	Helper	Shiraji
08.	Akash	1705 (SBS)	IV / ETP	Helper	Ak
					

Summary of Training:

Explained briefly on the four categories of biomedical waste i.e. yellow for pathological waste, Red for contaminated recyclable waste, white for sharp wastes and blue for medical glassware wastes. Explained on PPE's requirement for handling of biomedical waste & timely vaccination requirement of waste handlers.

Signature of the Trainer:

M. Anil Kumar 21/12/2024

12/12/2024

**Annexure 4.**  
**Biomedical waste management training**  
**attendance sheet.**

Corporate

Reference SOP No: & Title 99-06, Training

**TRAINING SUMMARY AND ATTENDANCE RECORD**

Title : Training of use 'PPE's for BMW handling Document Number: NA Version: NA  
Date : Aug-18-2024 Unit: IV  
Trainer: Erappa Reddy Time: From 13:30 (Hours) To 14:00 (Hours)  
Type of Training OJT

Note : Check its validity before use

S. No	Name of the Employee	Emp. Code No.	Unit/ Department	Designation	Signature with Date
01	Dhanjay	1962(SBS)	IV/ETP	Helper	Dhanjay
02	Santosh	1742(SBS)	IV/ETP	Helper	Santosh
03	Mahesh	1890(SBS)	IV/ETP	Helper	Mahesh
04	Shiraji	934(VPS)	IV/ETP	Helper	Shiraji
05	Basappa Boonay	1471(SBS)	IV/ETP	Helper	Basappa
06	Ramesh	1581(SBS)	IV/ETP	Helper	Ramesh
07	Raj Kumar	1957(SBS)	IV/ETP	Helper	Raj Kumar
08	Akash	1705(SBS)	IV/ETP	Helper	Akash
09	Akhil	1729(SBS)	IV/ETP	Helper	Akhil
10	Suresh	857(VPS)	IV/ETP	Helper	Suresh
11	Chenababu	1506(SBS)	IV/ETP	Helper	Chenababu
12	Arunde patel	1814(SBS)	IV/ETP	Helper	Arunde patel
1					

**Summary of Training:**

Explained what is the PPE's, PPE's mean personal protective Equipment  
Any working time wear the PPE's ex: Helmet, Goggles, gloves, Noise muffle  
ear plug. necessary places without PPE's don't work.

**Signature of the Trainer:**

Erappa Reddy  
08/18/2024

**Sai Life Sciences Limited**

Corporate

Reference SOP No: &amp; Title 99-06, Training

**TRAINING SUMMARY AND ATTENDANCE RECORD**

Title : Training of Use 'PPE' for BMW handling Document Number: ND Version: NA  
 Date : Aug-18-2024 Unit: IV  
 Trainer: Erappa Reddy Time: From 13:30 (Hours) To 14:00 (Hours)  
 Type of Training OJT

Note : Check its validity before use

S. No	Name of the Employee	Emp. Code No.	Unit/ Department	Designation	Signature with Date
01	Dhanraj	1962(SBS)	IV/ETP	Helper	Dhanraj
02	Santosh	1742(SBS)	IV/ETP	Helper	Santosh
03	Mahesh	1890(SBS)	IV/ETP	Helper	Mahesh
04	Shiraji	934(VPS)	IV/ETP	Helper	Shiraji
05	Basappa Basappa	1471(ETP)	IV/ETP	Helper	Basappa
06	Ramesh	1581(SBS)	IV/ETP	Helper	Ramesh
07	Raj Kumar	1957(SBS)	IV/ETP	Helper	Raj Kumar
08	Akash	1705(SBS)	IV/ETP	Helper	Akash
09	Akhil	1729(SBS)	IV/ETP	Helper	Akhil
10	Surendra	851(VPS)	IV/ETP	Helper	Surendra
11	Chenababu	1506(SBS)	IV/ETP	Helper	Chenababu
12	Arunde patel	1814(SBS)	IV/ETP	Helper	Arunde patel
1					

**Summary of Training:**

Explained what is the PPE's, PPE's mean personal protective Equipment  
 Any working time wear the PPE's ex: Helmet, Goggles, Goggles, Noisemask  
 Ear plug. working places without PPE's don't work.

**Signature of the Trainer:**

**Annexure 5.**  
**Biomedical waste management SOP**

## DOCUMENT DETAILS

Document Number	07-56
Document Name	BIOMEDICAL WASTE MANAGEMENT
Department	QA
Category	HEALTH, SAFETY & ENVIRONMENT SOPs
Version No	02
Effective Date	09/Feb/2025
Next Review Date	08/Feb/2028

## SIGNATURES

ROLE	NAME	DESIGNATION	DEPARTMENT	DATE&TIME
PREPARED BY	Raghavendra Pujari	Deputy Manager	HSE	05/Feb/2025 14:07
REVIEWED BY	Anjaneyulu MV	Deputy General Manager	HSE	05/Feb/2025 15:03
REVIEWED BY	P Prasada Rao	Manager	QA	05/Feb/2025 15:19
APPROVED BY	Sridharan Marisamy	Assistant General Manager	QA	05/Feb/2025 17:57

ELECTRONIC SIGNATURE PAGE



**STANDARD OPERATING PROCEDURE**

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**I. PURPOSE:**

To provide a procedure that describes the method for safe collection, segregation, transfer, Storage & Disposal of Biomedical Waste to regulatory standards at Unit-IV, Sai Life Sciences Limited.

**II. SCOPE:**

This procedure is applicable for handling of biomedical waste generated from Microbiology Lab & OHC (Occupational health center) at Sai Life Sciences Limited, Unit – IV, Kolhar Industrial Area, Bidar, and Karnataka.

**III. RESPONSIBILITY:**

Role	Responsibility
Microbiology Department and OHC (Occupational Health Centre)	Segregation, collection, decontamination, packing, quantification, labelling and transfer of wastes to biomedical waste storage shed through biomedical waste transfer note [F-07-130] for interim storage on Site.
HSE	<ol style="list-style-type: none"> <li>1. To maintain the records about generation, collection, reception, storage, transportation, disposal and / or any form of handling of bio-medical waste must be recorded in biomedical waste generation and disposal record [F-07-131] and Biomedical waste disposal receipt [F-07-104].</li> <li>2. Report of any accident to the prescribed authority.</li> <li>3. HSE In-charge shall be responsible for management of biomedical wastes. HSE In-charge shall be responsible for documentation,</li> </ol>

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	correspondence with KSPCB and Disposal facilities, category of wastes and for day to day activity.
Administration Department	To ensure that the waste materials are timely shifted from plant area to hazardous waste storage area in safe manner.

**IV. DOCUMENT REFERENCE:**

1. SOP : NA
2. Forms : Biomedical waste disposal receipt [F-07-104]  
: Biomedical waste transfer note [F-07-130]  
: Biomedical waste generation and disposal record [F-07-131]  
: Electronic Weighing balance usage log [F-PR-026]
3. Guidelines : Biomedical waste management rules, 2016.
4. Manual : Not Applicable

**V. SCHEDULE** : When biomedical waste is generated

**VI. DEFINITIONS** : Bio - Medical Waste is defined as any waste, which is generated during the diagnosis, treatment of human beings from OHC and waste generated from Microbiology Lab.

**VII. PROCEDURE:****1. Categories of waste:**

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- 1.1. The biomedical wastes are categorized based on Biomedical Waste (Management & Handling) Rules, 2016. The different categories and colour coding type of container for biomedical waste storage is given in the below table.

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal options
Yellow	<b>(a) Human Anatomical Waste:</b> Human tissues, organs, body parts and fetus below the viability period (as per the Medical Termination of Pregnancy Act 1971, amended from time to time).	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial
	<b>(b) Animal Anatomical Waste :</b> Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.		
	<b>(c) Soiled Waste:</b> Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial* In absence of above facilities, autoclaving or micro-waving/hydro-claving followed by shredding or mutilation or combination of

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			sterilization and shredding. Treated waste to be sent for energy recovery.
	<b>(d) Expired or Discarded Medicines:</b> Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.	Yellow coloured non-chlorinated plastic bags or containers	Expired cytotoxic drugs and items contaminated with cytotoxic drugs to be returned back to the manufacturer or supplier for incineration at temperature >1200 0C or to common Bio-medical waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at >12000C Or Encapsulation or Plasma Pyrolysis at >12000C. All other discarded medicines shall be either sent back to manufacturer or Disposed by incineration.
	<b>(e) Chemical Waste:</b>	Yellow coloured containers or non-	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous

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	Chemicals used in production of biological and used or discarded disinfectants.	chlorinated plastic bags	waste treatment, storage and disposal facility
	<b>(f) Chemical Liquid Waste :</b> Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formalin, infected secretions, aspirated body fluids, liquid from laboratories and floor washings, cleaning, house-keeping and disinfecting activities etc.	Separate collection system leading to effluent treatment system	After resource recovery, the chemical liquid waste shall be pre- treated before mixing with other waste water.
	<b>(g) Discarded linen, mattresses, beddings</b> contaminated with blood or body fluid.	Non-chlorinated yellow plastic bags or suitable packing material	Non- chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plasma Pyrolysis.

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	<b>(h) Microbiology, Biotechnology and other clinical laboratory waste:</b> Blood bags, Laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures.	Autoclave safe plastic bags or containers	Pre-treat to sterilize with non-chlorinated chemicals on-site as per National AIDS Control Organisation or World Health Organisation guidelines thereafter for Incineration.
<b>Red</b>	<b>Contaminated Waste (Recyclable)</b> (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacutainers with their needles cut) and gloves	Red coloured non-chlorinated plastic bags or containers	Autoclaving or micro-waving/ Hydro calving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible. Plastic waste should not be sent to landfill sites.

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<b>White (Translucent)</b>	<b>Waste sharps including Metals:</b> Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps.	Puncture proof, Leak proof, tamper proof containers	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit.
<b>Blue</b>	<b>(a) Glassware:</b> Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.  <b>(b) Metallic Body Implants</b>	Cardboard boxes with blue colored marking.  Cardboard boxes with blue colored marking.	Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypo chlorite treatment) or through autoclaving or microwaving or hydroclaving and then sent for recycling.

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**2. Segregation of biomedical waste:**

- 2.1 Creating a system for segregation of waste is the first step. Segregation at source of different types of biomedical wastes and their appropriate storage and/or disinfections sterilization, etc. would ensure that infectious wastes do not get mixed with non- infectious wastes as this would infect the entire waste.
- 2.2 The segregation of biomedical waste into various categories and stored specified coloured containers.
- 2.3 The Rules recommend different colour codes for waste containers in which different types of wastes needs to be stored. Clinical and general wastes should be segregated at source and placed in colour coded plastic bags and containers of definite specifications prior to collection and disposal.
- 2.4 The container should comprise of an inner plastic bag of varied colour depending on the type of waste. It should be of a leak proof and puncture proof, and should match the chosen outer container.
- 2.5 The outer container is a plastic bin with handles, and of a size which will depend on the amount of waste generated. The inner polythene bag should fit into the container with one-fourth of the polythene bag turned over the rim.
- 2.6 Labelling has been recommended to indicate the type of waste, site of generation, name of generating facility. This will allow the waste to be traced from the point of generation to the disposal area.



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- 2.7 No untreated biomedical waste shall be stored beyond a period of 48 hours. Segregated wastes of different categories need to be collected in identifiable containers.

### 3. Biomedical waste in house treatment:

#### 3.1. Autoclaving:

The basic objective of autoclaving is to disinfection and treating biomedical waste. When operating an autoclave, microbial / medical waste shall be subjected to:

- 3.1.1. A temperature of not less than 122 °C and pressure of 15 lb per square inch (psi) for an autoclave residence time of not less than 60 minutes.

#### 3.2. Transfer to on-site storage facility

- 3.2.1 The sterilized biomedical waste shall be transferred only in closed containers.
- 3.2.2 Manual loading should be avoided as far as possible. The bags / container containing biomedical wastes should be tied/ lidded before transfer.
- 3.2.3 Special trolley must be used if large quantity of waste, so as to prevent access to, and direct contact with, the waste by the transportation operators.
- 3.2.4 Waste generating departments (i.e. Microbiology & OHC) issue biomedical waste transfer note [F-07-130] to HSE department before transfer of wastes.

#### 3.3. Disposal Method:

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**3.3.1** While handling the Bio Medical waste to be use appropriate PPE's, the waste shall be disposed for treatment after disinfection and segregation to the Common Biomedical Waste Treatment Facility, which has been given consent by KSPCB for treatment and disposal of Biomedical Waste.

**3.3.2** All details pertaining to disposal of biomedical waste shall be recorded in biomedical waste generation and disposal record [F-07-131] and biomedical waste disposal receipt [F-07-104].

**3.4 NOTES:**

- 3.4.1** Waste Container should be labelled.
- 3.4.2** Earlier label on the Container must be removed or defaced.
- 3.4.3** Container should be leak proof.
- 3.4.4** Waste should be shifted to the designated storage area only.

**VIII. ABBREVIATIONS:**

- 1. BMW : Bio - Medical Waste
- 2. KSPCB : Karnataka State Pollution Control Board
- 3. OHC : Occupational Health Centre
- 4. HSE : Health Safety and Environment