

WBWML/BMW/EHS/19-20/WBPCB/01

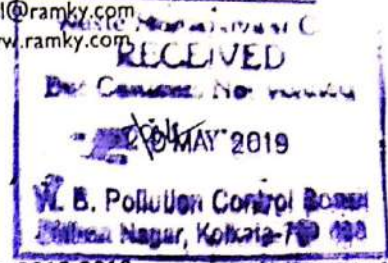
Date: 20/05/2019

To
The Chief Engineer (WMC)
WEST BENGAL POLLUTION CONTROL BOARD
(Department of Environment)
"Paribesh Bhawan"
10A, Block -LA, Sector-III
Salt Lake City,
Kolkata- 700 098.



WEST BENGAL WASTE MANAGEMENT LTD.

JL.103, Mouja: Purba Srikrishnapur
P.S. Satahata, Haldia - 721635.
Dist. : Purba Midnapore, W.B.
Ph.: (03224) 278238/239, Fax : 03224-278240
E-mail : wbwml@ramky.com
Web Site : www.ramky.com



Sub: Submission of Annual Report of CBWTF, Haldia for the financial year 2018-2019

Dear Sir,

We hereby submit the Annual Report of Common Bio- Medical Waste Treatment Facility in Form- IV, duly filled up and signed, from the period of 1st January 2018 to 31st December 2018, in the enclosed format for your kind perusal.

Kindly acknowledge receipt of the same.

With Regards,
For **WEST BENGAL WASTE MANAGEMENT LIMITED**



Snehangshu Chakraborty
(Project Head)

Encl:

- Attachment 1 – Authorization copy of BMW of WBWML
- Attachment 2 – Consent to Operate Copy for WBWML
- Attachment 3 – List of member HCF not handed over bio-medical waste.
- Attachment 4 – Accident Report for the financial year 2018
- Attachment 5 – Third party Stack emission Details 2018.
- Attachment 6 – Leachate Analysis Report & Treatment Methods.
- Attachment 7 – Vaccination Record for the financial year 2018.

CORPORATE OFFICE : RAMKY ENVIRO ENGINEERS LTD., Ramky Grandiose, 12 & 13th Floor
Ramky Towers Complex, Gachibowli, Hyderabad – 500 032
Website : www.ramky.com

Towards sustainable Growth

(See rule 13)
ANNUAL REPORT

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

Sl. No.	Particulars	
1.	Particulars of the Occupier	
	(i) Name of the authorized person (occupier or operator of facility)	: Mr. Snehangshu Chakraborty (Project Head)
	(ii) Name of HCF or CBMWTF	: M/s. West Bengal Waste Management Limited
	(iii) Address for Correspondence	: JL No 103, Mouza- Purba Srikrishnapur, PO & PS- Sutarehata, Haldia -721635, Dist- Purba Midnapur, West Bengal.
	(iv) Address of Facility	: JL No 103, Mouza- Purba Srikrishnapur, PO & PS- Sutarehata, Haldia -721635, Dist- Purba Midnapur, West Bengal.
	(v) Tel. No, Fax. No	: 03224 – 278238 /278247. FAX.– 03224 – 278240
	(vi) E-mail ID	: bmwhaldia@ramky.com, snehangshu@ramky.com
	(vii) URL of Website	:
	(viii) GPS coordinates of HCF or CBMWTF	: 22.1063 ⁰ N, 88.1348 ⁰ E
	(ix) Ownership of HCF or CBMWTF	: (State Government or Private or Semi Govt. or any other) – Public Private Partnership.
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	: Authorization valid up to 31.12.2022 Issued under Memo No.: 39/2S (BM)-2010/2006 (Pt-1) Dated 31.10.2018. (Attachment 1)
	(xi). Status of Consents under Water Act and Air Act	: Consents under Water Act and Air Act Valid up to: 28.02.2023 Issued under Memo No. 01/2S/CON -2316/2008 Dated 28.01.2019 (Attachment 2)
2	Type of Health Care Facility	Not Applicable
	(i) Bedded Hospital	: No. of Beds:
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	: N.A.
	(iii) License number and its date of expiry	: N.A.
3	Details of CBMWTF	
	(i) Number healthcare facilities covered by CBMWTF	: 558 as on 31 st December 2018.
	(ii) No of beds covered by CBMWTF	: 9052 as on 31 st December 2018.
	(iii) Installed treatment and disposal capacity of CBMWTF:	: 36,000 Kg per day
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	: 2,226.16 Kg per day

4	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	: Yellow Category : 667424 kg /annum Red Category : 425 kg/annum White: 150 kg/annum Blue Category : NIL General Solid waste: N.A.																																																
5.	Details of the Storage, treatment, transportation, processing and Disposal Facility																																																	
	(i) Details of the on-site storage facility	: Size : 150 sq.m Capacity : Provision of on-site storage : (cold storage or any other provision)- N.A																																																
	(ii) Details of the treatment or disposal facilities	<table border="1"> <thead> <tr> <th data-bbox="901 616 1117 828">Type of treatment Equipment</th> <th data-bbox="1117 616 1204 828">No of units</th> <th data-bbox="1204 616 1332 828">Capacity Kg/day</th> <th data-bbox="1332 616 1492 828">Quantity Treated or disposed in kg per annum</th> </tr> </thead> <tbody> <tr> <td data-bbox="901 828 1117 907">Incinerators</td> <td data-bbox="1117 828 1204 907">1</td> <td data-bbox="1204 828 1332 907">36000</td> <td data-bbox="1332 828 1492 907">6,67,424 kg/annum</td> </tr> <tr> <td data-bbox="901 907 1117 940">Plasma Pyrolysis</td> <td data-bbox="1117 907 1204 940">-</td> <td data-bbox="1204 907 1332 940">-</td> <td data-bbox="1332 907 1492 940">-</td> </tr> <tr> <td data-bbox="901 940 1117 1041">Autoclaves</td> <td data-bbox="1117 940 1204 1041">1</td> <td data-bbox="1204 940 1332 1041">430 litre 30 kg/day</td> <td data-bbox="1332 940 1492 1041">425 kg/annum</td> </tr> <tr> <td data-bbox="901 1041 1117 1075">Microwave</td> <td data-bbox="1117 1041 1204 1075">-</td> <td data-bbox="1204 1041 1332 1075">-</td> <td data-bbox="1332 1041 1492 1075">-</td> </tr> <tr> <td data-bbox="901 1075 1117 1108">Hydroclave</td> <td data-bbox="1117 1075 1204 1108">-</td> <td data-bbox="1204 1075 1332 1108">-</td> <td data-bbox="1332 1075 1492 1108">-</td> </tr> <tr> <td data-bbox="901 1108 1117 1176">Shredder</td> <td data-bbox="1117 1108 1204 1176">1</td> <td data-bbox="1204 1108 1332 1176">40kg/hr</td> <td data-bbox="1332 1108 1492 1176">425 kg/annum</td> </tr> <tr> <td data-bbox="901 1176 1117 1243">Needle tip cutter or destroyer</td> <td data-bbox="1117 1176 1204 1243">-</td> <td data-bbox="1204 1176 1332 1243">-</td> <td data-bbox="1332 1176 1492 1243">-</td> </tr> <tr> <td data-bbox="901 1243 1117 1332">Sharps encapsulation or concrete pit</td> <td data-bbox="1117 1243 1204 1332">1</td> <td data-bbox="1204 1243 1332 1332">SEL</td> <td data-bbox="1332 1243 1492 1332">150 kg/annum</td> </tr> <tr> <td data-bbox="901 1332 1117 1366">Deep burial pits:</td> <td data-bbox="1117 1332 1204 1366">-</td> <td data-bbox="1204 1332 1332 1366">-</td> <td data-bbox="1332 1332 1492 1366">-</td> </tr> <tr> <td data-bbox="901 1366 1117 1433">Chemical disinfection:</td> <td data-bbox="1117 1366 1204 1433">-</td> <td data-bbox="1204 1366 1332 1433">-</td> <td data-bbox="1332 1366 1492 1433">-</td> </tr> <tr> <td data-bbox="901 1433 1117 1534">Any other treatment equipment:</td> <td data-bbox="1117 1433 1204 1534">-</td> <td data-bbox="1204 1433 1332 1534">-</td> <td data-bbox="1332 1433 1492 1534">-</td> </tr> </tbody> </table>	Type of treatment Equipment	No of units	Capacity Kg/day	Quantity Treated or disposed in kg per annum	Incinerators	1	36000	6,67,424 kg/annum	Plasma Pyrolysis	-	-	-	Autoclaves	1	430 litre 30 kg/day	425 kg/annum	Microwave	-	-	-	Hydroclave	-	-	-	Shredder	1	40kg/hr	425 kg/annum	Needle tip cutter or destroyer	-	-	-	Sharps encapsulation or concrete pit	1	SEL	150 kg/annum	Deep burial pits:	-	-	-	Chemical disinfection:	-	-	-	Any other treatment equipment:	-	-	-
Type of treatment Equipment	No of units	Capacity Kg/day	Quantity Treated or disposed in kg per annum																																															
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Deep burial pits:	-	-	-																																															
Chemical disinfection:	-	-	-																																															
Any other treatment equipment:	-	-	-																																															
	(iii) Quantity of recyclable wastes sold to authorize recyclers after treatment in kg per annum.	: Red Category (like plastic, glass etc.)- Kept in store after treatment- 425 kg recyclable plastic wastes is transferred to in-house recycling facility of BWML																																																
	(iv) No of vehicles used for collection and transportation of biomedical waste	: 11																																																

	(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum	:	Incineration Ash ETP Sludge	Quantity Generated 66742.4 Kg/year NA	Where Disposed Own Landfill in CHWTSD F NA
	vi) Name of the Common Bio- Medical Waste Treatment Facility Operator through which wastes are disposed of	:	Own CHWTSD (West Bengal Waste Management Limited)		
	(vii) List of member HCF not handed over bio-medical waste.	:	Attachment 3		
6	Do you have bio-medical waste Management committee? If yes, attach minutes of the meetings held during the reporting period		NA for CBWTF. District Level Monitoring Committee organized for three districts i.e. for Purba Mednipore, Paschim Mednipore & Jhargram district.		
7	Details trainings conducted on BMW				
	(i) Number of trainings conducted on BMW Management.	:	24		
	(ii) Number of personnel trained	:	17		
	(iii) Number of personnel trained at the time of induction	:	01		
	iv) Number of personnel not undergone any training so far	:	Nil		
	(v) Whether standard manual for Training is available?	:	Yes		
	(vi) Any other information)	:			
8	Details of the accident occurred during the year		Nil. Attachment 4		
	(i) Number of Accidents occurred	:	Nil		
	(ii) Number of the persons affected	:	Nil		
	(iii) Remedial Action taken (Please attach details if any)	:	Nil		
	(iv) Any Fatality occurred, details.	:	Nil		
9.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?	:	Maintained Third party testing report attached herewith. Attachment 5.		
	Details of Continuous online emission monitoring systems installed	:	CPCB Online Server Connectivity done. Link provided to WBPCB regarding online checking of connectivity to CPCB server.		

10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?	:	Liquid waste disposed through Spray dryer in incinerator. No liquid waste been discharged outside. Attachment 6
11.	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	:	Maintained.
12.	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator) Spray Dryer- Multicyclone Separator-Dry Scrubber- Bag Filter- Wet Scrubber Vaccination been provided for the employees for the year 2018-2019 Attachment 7

Certified that the above report is for the period from: 1st January 2018 to 31st December 2018



Snehangshu Chakraborty

Name and Signature of the Head of the Institution



Date: 14/05/2019

Place: Haldia

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block - LA, Sector III, Bidhannagar
Kolkata - 700 098



BMW Authorisation No. :

Memo No. 39/2S(BM)-2010/2006(Pt-I)

Date 31/10/2018

FORM - III

AUTHORIZATION

(Authorization for operating a facility for generation, Collection, reception, treatment, storage, transport and disposal of biomedical wastes as per the Bio-Medical Waste Management Rules, 2016)

1. M/s. West Bengal Waste Management Ltd. an occupier or operator of the facility located at P.O. Sutahata, P.S. Sutahata, Dist. Purba Medinipur Pin: - 721 635 is hereby granted an Authorization for:

Activity (Please Tick)

- | | |
|--|---|
| <input type="checkbox"/> Generation, segregation | <input checked="" type="checkbox"/> Treatment or processing or conversion |
| <input checked="" type="checkbox"/> Collection | <input type="checkbox"/> Recycling |
| <input checked="" type="checkbox"/> Storage | <input checked="" type="checkbox"/> Disposal or Destruction |
| <input checked="" type="checkbox"/> Packaging | <input type="checkbox"/> Use |
| <input checked="" type="checkbox"/> Reception | <input type="checkbox"/> Offering for Sale/ Transfer |
| <input checked="" type="checkbox"/> Transportation | <input type="checkbox"/> Any other form of Handling |

2. M/s. West Bengal Waste Management Ltd. is hereby authorized for handling of biomedical waste as per the capacity given below:

- | | |
|---|--|
| (i) Number of beds of HCF | : <u>N.A.</u> |
| (ii) Number of healthcare facilities covered by CBMWTF | : <u>478</u> |
| (iii) Installed treatment and disposal capacity | : <u>BMW From 20,000 bedded + non bedded units as per Sch.-I of Rules.</u> |
| (iv) Area or distance covered by CBMWTF | : <u>150 Km.</u> |
| (v) Quantity of Biomedical waste handled, treated or disposed | : <u>1781 Kg per day</u> |

Type of Waste Category

- Yellow
- Red
- White (Translucent)
- Blue

Quantity permitted for Handling

3. This Authorization shall be in force for a period up to 31/12/2022 from the date of issue.

4. This Authorization is subject to the conditions stated overleaf and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Bou
Authorised Signatory of the State Board
Chief Engineer
West Bengal Pollution Control Board

WEST BENGAL POLLUTION CONTROL BOARD

'Parishesh Bhawan'
Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098

Consent Letter Number :

Memo Number : 01/2S(CON)-2316/2008(Pt-I)

Date : 28/01/2019

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

M/s. West Bengal Waste Management Ltd.

WEST BENGAL

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at J.L.No. 103 & 104, Mouza - Purba

Srikrishnapur, P.S. Sutahata, Dist. Purba Medinipur, Pin:- 721 635.

(Detailed address of the manufacturing unit)

for a period from up to 28/02/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Seal

For and on behalf of the State Board

(Member-Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
Chief Engineer

West Bengal Pollution Control Board

West Bengal Waste Management limited, Haldia

List of HCFs not providing Biomedical waste to our CBWTF despite having membership

S. No	Customer Name	Bedded/Non bedded	District	Address
1	Aparajita Pathological Lab	Non bedded	Purba Medinipur	Egra, Pin: 721429, State: West Bengal. India
2	Apollo Telemedicine Centre	Non bedded	Purba Medinipur	Basudevpur, Pin:721602,State: West Bengal. India
3	Astha Diagnostic Centre	Non bedded	Purba Medinipur	School Bazar , Contai, Pin: 721401,State: West Bengal. India
4	Bajkul Thalassaemia Centre	Non bedded	Purba Medinipur	Bajkul, Pin: 721655, State: West Bengal. India
5	Basu Medical Day Care Centre	Non bedded	Purba Medinipur	Basudevpur, Pin:721602,State: West Bengal. India
6	City Medical Diagnostic Centre	Non bedded	Purba Medinipur	Contai, Pin:721401, State: West Bengal. India
7	Deys X Ray & Pathological Laboratory	Non bedded	Purba Medinipur	Chaitnyapur, Pin:721645, State: West Bengal. India
8	Disha Nursing Home	Bedded	Purba Medinipur	Heria, Pin: 721431, State: West Bengal. India
9	Haldia Ramkrishna Seva Ashram	Bedded	Purba Medinipur	Chaitnyapur, Pin:721645, State: West Bengal. India
10	Joyguru Diagnostic Centre	Bedded	Purba Medinipur	Egra, Pin: 721429, State: West Bengal. India
11	Kamala Nursing Home	Bedded	Purba Medinipur	Contai, Pin:721401, State: West Bengal. India
12	Kusum Joyti Matri Nursing Home	Bedded	Purba Medinipur	Contai, Pin:721401, State: West Bengal. India
13	Life Link Nursing Home	Bedded	Purba Medinipur	Contai, Pin:721401, State: West Bengal. India
14	Maa Sarada Nursing Home	Bedded	Purba Medinipur	Uttar Mechogram, Pin: 721139,State: West Bengal. India
15	Maya Nursing Home	Bedded	Purba Medinipur	Kakdihi, Mecheda, Pin: 721134, State: West Bengal. India
16	Medi Tulsi Nursing Home	Bedded	Purba Medinipur	Sutahata, Pin: 721635, State: West Bengal. India
17	New Digha Nursing Home	Bedded	Purba Medinipur	Digha, Pin: 721428, State: West Bengal. India
18	Niramoy Nursing Home	Bedded	Purba Medinipur	Chorpalia, Pin: 721448, State: West Bengal. India
19	Nivedita Polyclinic and Nursing Home	Bedded	Purba Medinipur	Mecheda, Pin: 721134, State: West Bengal. India
20	Pal Clinic Nursing Home	Bedded	Purba Medinipur	Basudevpur, Pin:721602, State: West Bengal. India
21	Ramkrishna Nursing Home	Bedded	Purba Medinipur	Kakdihi, Mecheda, Pin: 721134, State: West Bengal. India
22	Relife Nursing Home	Bedded	Purba Medinipur	Salgachia, Tamluk, Pin:721636, State: West Bengal. India
23	The Vivekananda Nursing Home	Bedded	Purba Medinipur	Chandipur, Pin: 721507, State: West Bengal. India
24	Uttaran Nursing Home	Bedded	Purba Medinipur	Contai, Pin:721401, State: West Bengal. India
25	Vivekananda Nursing Home	Bedded	Purba Medinipur	Dakshan Chok, Uttar mechogram, Pin: 721139, State: West Bengal. India
26	Royal Nursing Home	Bedded	Purba Medinipur	Mecheda, Pin: 721134, State: West Bengal. India
27	Bengal Nursing Home	Bedded	Purba Medinipur	Basudevpur, Pin:721602, State: West Bengal. India
28	Sushruta Diagnostic Centre	Non bedded	Purba Medinipur	Tamluk, Pin:721636, State: West Bengal. India
29	The New Review Diagnostic Centre	Non bedded	Purba Medinipur	Kolaghat, Pin: 721134, State: West Bengal. India
30	Ma Kanak Diagnostic Centre	Non bedded	Purba Medinipur	Egra, Pin: 721429, State: West Bengal. India
31	Biocare Diagnostic Centre	Non bedded	Purba Medinipur	HPL Lnk Road, Basudevpur, Haldia, Pin: 721602.State: West Bengal. India
32	Merry Land Nursing Home	Bedded	Purba Medinipur	Monoharchakh, Contai, Pin: 721401,State: West Bengal. India
33	Swasti Diagnostic Centre	Non bedded	Purba Medinipur	Egra, Pin: 721429, State: West Bengal. India
34	The Anubikshan Laboratory	Non bedded	Purba Medinipur	Kamarda, Pin:721432, State: West Bengal. India
35	Asha Diagnostic Centre	Non bedded	Pachim Medinipur	Rabindranagar, Pin: 721101, State: West Bengal. India
36	Chakraborty Nursing Home	Bedded	Pachim Medinipur	Girimoidan, Kharagpur,Pin:721301 , State: West Bengal. India
37	Chhototara Phc	Bedded	Pachim Medinipur	Chandrokona, Pin: 721201, State: West Bengal. India
38	City Lab Balichak	Non bedded	Pachim Medinipur	Balichak, Pin: 721430, State: West Bengal. India
39	Cure Diagnostic Centre	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
40	Damodar Nursing Home	Bedded	Pachim Medinipur	Kuspota, Ghatal,Pin: 721202, State: West Bengal. India



West Bengal Waste Management limited, Haldia

List of HCFs not providing Biomedical waste to our CBWTF despite having membership

S. No	Customer Name	Bedded/Non bedded	District	Address
41	DAS Polyclinic & X-RAY Diagnostic Centre	Non bedded	Pachim Medinipur	Sabong, Pin: 721155, State: West Bengal. India
42	Debi Pathological Laboratory	Non bedded	Pachim Medinipur	Jhargram, Raghunathpur, Pin: 721135, State: West Bengal. India
43	Deshapran Nursing Home	Bedded	Pachim Medinipur	Goura, Daspur, Pin: 721211, State: West Bengal. India
44	Diagnostic Centre	Non bedded	Pachim Medinipur	Library Road, Midnapur, Pin: 721101, State: West Bengal. India
45	Dipti Laboratory	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
46	Dream Land Nursing Home	Bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
47	Iman Pathological Laboratory	Non bedded	Pachim Medinipur	Malancha Road, Kharagpur, Pin: 721301, State: West Bengal. India
48	Indu X Ray and Pathology	Non bedded	Pachim Medinipur	Daspur, Pin: 721211, State: West Bengal. India
49	J.P. Lab (Dr. N.D. Paul)	Non bedded	Pachim Medinipur	Keranitola , Mednipore, Pin: 721102, State: West Bengal. India
50	Janakalyan Nursing Home	Bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
51	Jeebandeep Diagnostic Centre Pvt. Ltd	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
52	Krishna Pathological Laboratory	Non bedded	Pachim Medinipur	Raghunathpur, Ghatal, Pin: 721212, State: West Bengal. India
53	Life Line Diagnostic	Non bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal. India
54	Life Line Nursing Home	Bedded	Pachim Medinipur	Balichak, Paschim Mednipore, Pin: 721124, State: West Bengal. India
55	M.R.Bangur Tb Hospital	Bedded	Pachim Medinipur	Chandrokona, Paschim Mednipore, Pin: 721201, State: West Bengal. India
56	Maa Sarada Arogya Niketan & Eye Care	Bedded	Pachim Medinipur	Debrabazar, Debra, Pin: 721126, State: West Bengal. India
57	Maa Sitala Poly Clinic & Nursing Home	Bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal. India
58	Maity Nursing Home	Bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
59	Maity Nursing Home	Bedded	Pachim Medinipur	Moyna, Pin: 721647, State: West Bengal. India
60	Mala Diagnostic	Non bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal. India
61	Maligram Poly Clinic. Pingla	Non bedded	Pachim Medinipur	Pingla, Pin: 721140, State: West Bengal. India
62	Medinipur Nursing Home Pvt. Ltd & Diagnostic Cent	nonBedded	Pachim Medinipur	Rabindranagar, Paschim Mednipore, Pin: 721101, State: West Bengal. India
63	Micro Pathology Laboratory	Non bedded	Pachim Medinipur	Belpahari, Pin: 721501, State: West Bengal. India
64	Midnapore Scan Centre Pvt. Ltd	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
65	Mothers Care Nursing Home	Bedded	Pachim Medinipur	Raghunathpur, Jhargram, Pin: 721507, State: West Bengal. India
66	Nayabasad Phc	Bedded	Pachim Medinipur	Salboni, Pin: 721129., State: West Bengal. India
67	New Pathological Laboratory	Non bedded	Pachim Medinipur	Raghunathpur, Jhargram, Pin: 721507, State: West Bengal. India
68	Newmahamaya Nursing Home Keranitola	Bedded	Pachim Medinipur	Keranitola , Midnapore, Pin: 721102, State: West Bengal. India
69	Nidan Diagnostic Centre	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin : 721202, State: West Bengal. India
70	Opd Cum Maternity Home Ippviii (Ext	Bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal. India
71	Pariksha Laboratory	Non bedded	Pachim Medinipur	Kuspota, Ghatal, Pin: 721202, State: West Bengal. India
72	Pathological Clinc	Non bedded	Pachim Medinipur	Raghunathpur, Jhargram, Pin: 721507, State: West Bengal. India
73	Pathology Laboratory	Non bedded	Pachim Medinipur	Mednipore, Pin: 721101, State: West Bengal. India
74	Quality Health Care Centre	Bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal. India
75	Radha Rani Midda Memorial N.H	Bedded	Pachim Medinipur	Midnapore, Rabindranagar, Pin: 721101, State: West Bengal. India
76	Roy Laboratory	Non bedded	Pachim Medinipur	Belda, Pin: 721424, State: West Bengal. India
77	S.N.Marik Memorial Nursing Home	Bedded	Pachim Medinipur	Midnapore, Pin: 721101, State: West Bengal. India
78	Sanjeeban Nursing Home	Bedded	Pachim Medinipur	Kuspota, Ghatal, Pin: 721202, State: West Bengal. India
79	Sarat Pathological Laboratory	Non bedded	Pachim Medinipur	Gokulpur, Kharagpur, Pin: 721301, State: West Bengal. India
80	Sebayan Nursing Home & Matrinity Clinic	Bedded	Pachim Medinipur	Kuspota, Ghatal, Pin: 721202, State: West Bengal. India



West Bengal Waste Management limited, Haldia

List of HCFs not providing Biomedical waste to our CBWTF despite having membership

S. No	Customer Name	Bedded/Non bedded	District	Address
81	Shree Krishna Diagnostic Centre	Non bedded	Pachim Medinipur	Daspur, Pin: 721211, State: West Bengal, India
82	Sinha Poly Clinic & Physiotherapy Centre	Non bedded	Pachim Medinipur	Rabindranagar, Midnapore, Pin: 721301, State: West Bengal, India
83	Sonex Diagnostic Centre	Non bedded	Pachim Medinipur	Midnapore, Rabindranagar, Pin: 721301, State: West Bengal, India
84	Sukla Diagnostic Centre	Non bedded	Pachim Medinipur	Kharagpur, DVC Market, Pin: 721306, State: West Bengal, India
85	Suraksha Diagnostic Center	Non bedded	Pachim Medinipur	Belbahari, Pin: 721501, State: West Bengal, India
86	Sushruta Diagnostic Centre	Non bedded	Pachim Medinipur	Khudiram, Midnapur, Pin: 721121, State: West Bengal, India
87	The Astha Poly Clinic & Nursing Home	Bedded	Purba Medinipur	Tamluk, Pin: 721536, State: West Bengal, India
88	The Seba Pathological Laboratory	Non bedded	Pachim Medinipur	Raghunathpur, Jhargram, Pin: 721507, State: West Bengal, India
89	Trirayani Nursing Home.	Bedded	Pachim Medinipur	Sultanpur, Debra, Pin: 721222, State: West Bengal, India
90	Tulip Diagnostic	Non bedded	Pachim Medinipur	Ghatal, Pin: 721212, State: West Bengal, India
91	Woodland Diagnostic Centre	Non bedded	Pachim Medinipur	Keshary, Pin: 721153, State: West Bengal, India
92	Seropath Diagnostic Centre	Non bedded	Pachim Medinipur	Belda, Pin: 721424, State: West Bengal, India
93	Child & Maternity Hospital	Bedded	Pachim Medinipur	Moch Bistupur bazar, Debra, Pin: 721126, State: West Bengal, India
94	Mid -West	Non bedded	Pachim Medinipur	Garbeta, Pin: 721127, State: West Bengal, India
95	Shree Maa Diagnostic Centre	Non bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal, India
96	The Health And Mind Clinic Cum Lab	Non bedded	Pachim Medinipur	Rabindranagar, Midnapore, Pin: 721301, State: West Bengal, India
97	Global Diagnostic Center & Poly Clinic	Non bedded	Pachim Medinipur	Rabindranagar, Midnapore, Pin: 721301, State: West Bengal, India
98	Shaachak Diagnostic Center	Non bedded	Pachim Medinipur	Kharagpur, Pin: 721301, State: West Bengal, India



West Bengal Waste Management Limited

Common Biomedical Waste Treatment Facility

Form I

[(See rule 4(o), 5(i) and 15 (2))]

Accident Reporting

1. Date and Time of Accident : Nil
2. Type of accident : Nil
3. Sequence of events leading to accident : Nil
4. Has the authority been informed immediately : Nil
5. The type of waste involved in accident : N.A
6. Assessment of the effects of accident on human health and the environment : N.A
7. Emergency measures taken: N.A.
8. Steps taken to alleviate the effects of accidents: N.A.
9. Steps taken to prevent the recurrence of such an accident: N.A.
10. Does your facility has an Emergency Control Policy? Yes (Onsite Emergency Preparedness Plan is available)

If yes give details:

An Emergency in a plant has potential to cause immense damage to the plant itself apart from causing injury to plant personnel and environmental pollution. Often outside help will have to be summoned to tackle such emergencies. The main contributory factor to such emergencies is plant failure, sabotage, natural calamities, explosion, etc.

In our plant such emergencies are tackled by emergency control team with the help of plant personnel who are trained to rise to the occasion and if required outside help is also sought.

Date: 13/05/2019

Place: Haldia

Signature:

E.H.S. In-Charge

Designation:



May 18



Edward Food Research & Analysis Centre Limited

TEST REPORT

QA.15.0.0.3

ISSUED TO :

West Bengal Waste Management Ltd.
(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :
Purba Srikrishnapur, Sutahata, Purba Medinipur
Haldia - 721635
KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO. : EFRAC/2018/ENV/01237
ISSUE DATE : 02/06/2018
CUSTOMER REF : TRF
REF. DATE : 10/05/2018
PAGE NO. : 1 of 5

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Date and Time of Sampling	: 10/05/2018	Sampling Location	: Incinerator Stack
Sample Registration No	: EFRAC/2018/ENV/01237	Sample Registration Date	: 16/05/2018
Sample Type	: Stack Monitoring	Sample Drawn by	: EFRAC
Analysis Starting Date	: 16/05/2018	Analysis Completion Date	: 02/06/2018

GENERAL INFORMATION ABOUT STACK

Stack identification no	: Incinerator Stack
Shape of stack	: Circular
Stack connected to	: Common Hazardous Waste Incinerator
Emission due to	: Burning of HSD & Incineration Process
Stack height from ground level(m)	: 55.5 m
Height of sampling point from ground level(m)	: 22.5 m
Stack diameter at sampling point(m)	: 0.78 m
Material of construction of stack	: MS
Installed Capacity	: 1500 kg/hr
Running capacity	: 900 kg/hr
Fuel used	: HSD
Fuel consumption	: 180 lit/hr
Platform & ladder type & condition	: Permanent & Well
Pollution Control Device	: Bag Filter, Wet Scrubber & Dry Scrubber
Remarks	: Na



Authorized Signatory
Kishan Pal Singh
Manager



TEST REPORT

ISSUED TO :	REPORT NO.	: EFRAC/2018/ENV/01237
West Bengal Waste Management Ltd.	ISSUE DATE	: 02/06/2018
(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :	CUSTOMER REF	: TRF
Purba Srikrishnapur, Sutahata, Purba Medinipur	REF. DATE	: 10/05/2018
Haldia - 721635	PAGE NO.	: 2 of 5
KIND ATTENTION : Mr.Tarun Kumar Midya		

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Dioxin					
1	1 2 3 4 6 7 8- Heptachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
2	1 2 3 4 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
3	1 2 3 7 8 9- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
4	1 2 3 7 8- Pentachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.024
5	2 3 7 8-Tetrachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.005
6	1 2 3 6 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
7	Octachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.000015
8	2 3 4 7 8- Pentachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0072
9	1 2 3 4 6 7 8- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
10	1 2 3 4 7 8 9- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
11	1 2 3 4 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024

UOM : Unit of Measurement
Instruments Used : HRGC-HRMS
Limit of Quantitation : 0.01ng.TEQ/Nm³ for Dioxin & Furans
Remarks : TEQ:Toxicity Equivalent, TEF: Toxicity Equivalency Factor



Authorized Signatory
 K'shan Pal Singh
 Manager

Research & Analysis Centre: Subhas Nagar PO: Nilgunj Bazar, Barasat, Kolkata 700 121
 Phone +91 33 7112 2800. Fax: +91 33 7112 2801. Email: efraclab@efrac.org



TEST REPORT

QA.15.0.0.3

ISSUED TO :

West Bengal Waste Management Ltd
(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :
Purba Srikrishnapur, Sutahata, Purba Medinipur
Haldia - 721635
KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO. : EFRAC/2018/ENV/01237
ISSUE DATE : 02/06/2018
CUSTOMER REF : TRF
REF. DATE : 10/05/2018
PAGE NO. : 3 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
12	1 2 3 6 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
13	1 2 3 7 8 9- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
14	1 2 3 7 8- Pentachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00072
15	2 3 4 6 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
16	2 3 7 8- Tetrachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0005
17	Octachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.000015

UOM : Unit of Measurement
Instruments Used : HRGC-HRMS
Limit of Quantitation : 0.01ng.TEQ/Nm³ for Dioxin & Furans
Remarks : TEQ:Toxicity Equivalent, TEF: Toxicity Equivalency Factor



Authorized Signatory
K'shan Pal Singh
Manager

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Edward Food Research & Analysis Centre Limited

QA.15.0.0.3

TEST REPORT

ISSUED TO : West Bengal Waste Management Ltd. (A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza : Purba Srikrishnapur, Sutahata, Purba Medinipur Haldia - 721635 KIND ATTENTION : Mr.Tarun Kumar Mldya	REPORT NO. : EFRAC/2018/ENV/01237 ISSUE DATE : 02/06/2018 CUSTOMER REF : TRF REF. DATE : 10/05/2018 PAGE NO. : 4 of 5
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TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Heavy Metals					
1	Cadmium (Cd)	mg/Nm ³	USEPA Method 29	--	<0.0003
2	Manganese (Mn)	mg/Nm ³	USEPA Method 29	--	<0.0003
3	Cobalt (Co)	mg/Nm ³	USEPA Method 29	--	<0.0003
4	Arsenic (As)	mg/Nm ³	USEPA Method 29	--	<0.0003
5	Mercury (Hg)	mg/Nm ³	USEPA Method 29	Max:0.05	<0.0003
6	Antimony (Sb)	mg/Nm ³	USEPA Method 29	--	<0.0003
7	Copper (Cu)	mg/Nm ³	USEPA Method 29	--	<0.0003
8	Lead (Pb)	mg/Nm ³	USEPA Method 29	--	<0.0003
9	Thorium (Th)	mg/Nm ³	USEPA Method 29	--	<0.0003
10	Vanadium (V)	mg/Nm ³	USEPA Method 29	--	<0.0003
11	Nickel (Ni)	mg/Nm ³	USEPA Method 29	--	<0.0003

UOM : Unit of Measurement

Instruments Used : ICP-MS

Limit of Quantitation : None

Remarks : TEQ: Toxicity Equivalent, TEF: Toxicity Equivalency Factor
Requirements given as per G.S.R. 497(E).



Authorized Signatory
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Manager

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ISSUED TO :		TEST REPORT		QA.15.0.0.3
West Bengal Waste Management Ltd. (A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza : Purba Srikrishnapur, Sutahata, Purba Medinipur Haldia - 721635 KIND ATTENTION : Mr.Tarun Kumar Midya		REPORT NO. : EFRAC/2018/ENV/01237	ISSUE DATE : 02/06/2018	CUSTOMER REF : TRF
		REF. DATE : 10/05/2018	PAGE NO. : 5 of 5	

TEST RESULT					
S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Environment					
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985, RA 2003	Max.50.0	36.0*
2	Sulphur Dioxide(as SO ₂)	mg/Nm ³	EPA Method 6C	Max.200.0	38.0*
3	Oxides Of Nitrogen(NO _x)	mg/Nm ³	EPA Method 7E	Max.400.0	68.0*
4	Carbon Monoxide(CO)	mg/Nm ³	USEPA 10	Max.100.0	25.0*
5	Carbon dioxide (CO ₂)	% v/v	USEPA 3A	--	7.4
6	Oxygen (O ₂)	% v/v	USEPA 3A	--	12.2
7	Hydrogen Chloride (HCl)	mg/Nm ³	USEPA 26	Max.50.0	<0.5
8	Total Hydro Carbon	ppm	In House Method QA.16.5.222 by Analyzer, DOI: 12.01.2017	--	30.0
9	Hydrogen Fluoride (HF)	mg/Nm ³	USEPA 26	Max.4.0	<0.5
10	Total Organic Carbon (TOC)	mg/Nm ³	Approved method for the sampling, analysis of air pollutants, NSW EPA, 2007	Max.20.0	<0.5

UOM : Unit of Measurement
 Instruments Used : Semimicro Balance, Flue Gas Analyzer, Stack Sampling Kit, GC(FID), IC
 Limit of Quantitation : None
 Remarks : TEQ: Toxicity Equivalent, TEF: Toxicity Equivalency Factor
 Requirements given as per G.S.R. 481(E). * Monitored values corrected to 11% O₂

- END OF THE TEST REPORT -



Authorized Signatory
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Dec-18

Stack Report - (Incinerator)
Dec'18.



efrac

Edward Food Research & Analysis Centre Limited

Certificate No. : TC-5817



ULR-TCS8171800001790P

TEST REPORT

QA.15.00.3

ISSUED TO :

West Bengal Waste Management Limited
J.L.No.-103,Mouza :Purva Srikrishnapur,PO+PS-Sutahata
Haldia - 721635

REPORT NO. : EFRAC/2018/ENV/01960
ISSUE DATE : 22/12/2018
CUSTOMER REF : TRF
REF. DATE : 07/12/2018
PAGE NO. : 1 of 5

KIND ATTENTION : Mr.Tarun Kumar Midya

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS

Date and Time of Sampling : 07/12/2018

Sampling Location : Common Hazardous Waste Incinerator

Sample Registration No : EFRAC/2018/ENV/01960

Sample Registration Date : 12/12/2018

Sample Type : Incinerator Stack

Sample Drawn by : EFRAC

Analysis Starting Date : 12/12/2018

Analysis Completion Date : 22/12/2018

GENERAL INFORMATION ABOUT STACK

Stack identification no	: Incinerator Stack
Shape of stack	: Circular
Stack connected to	: Common Hazardous Waste Incinerator
Emission due to	: Burning of HSD & Incinerator Process
Stack height from ground level(m)	: 35.5 m
Height of sampling point from ground level(m)	: 22.5 m
Stack diameter at sampling point(m)	: 0.78 m
Material of construction of stack	: MS
Installed Capacity	: 1500 kg/hr
Running capacity	: 1000 kg/hr
Fuel used	: HSD
Fuel consumption	: 160 lit/hr
Platform & ladder type & condition	: Permanent & well
Pollution Control Device	: Bag Filter,Wet Scrubber & Dry Scrubber
Remarks	: NA



Authorized Signatory
Kishan Pal Singh
Manager

Research & Analysis Centre : Subhas Nagar PO, Nilgunj Bazar, Barasat, Kolkata 700 121



Certificate No. : TC-5817



QA.15.0.0.3

TEST REPORT

ULR-TCS81718000001790P

ISSUED TO :

West Bengal Waste Management Limited
J.L.No.-103,Mouza :Purva Srikrishnapur,PO+PS-Sutahata
Haldia - 721635

KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO.

ISSUE DATE

CUSTOMER REF

REF. DATE

PAGE NO.

: EFRAC/2018/ENV/01960

: 22/12/2018

: TRF

: 07/12/2018

: 2 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Dioxin					
1	1 2 3 4 6 7 8- Heptachlorodibenzo-p- dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
2	1 2 3 4 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
3	1 2 3 7 8 9- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
4	1 2 3 7 8- Pentachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.024
5	2 3 7 8-Tetrachlorodibenzo-p- -dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.005
6	1 2 3 6 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
7	Octachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.000015
8	2 3 4 7 8- Pentachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0072
9	1 2 3 4 6 7 8- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
10	1 2 3 4 7 8 9- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
11	1 2 3 4 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024

UOM : Unit of Measurement

Instruments Used : HRGC-HRMS

Limit of Quantitation : 0.01ng.TEQ/Nm³

Remarks : TEQ:Toxicity Equivalent; O2 % Value-13.4, O2 Correction Factor-1.32 TEF: Toxicity Equivalency Factor given as per WHO-2005

Authorized Signatory
Kishan Pal Singh
Manager



Certificate No. : TC-5817

ULR-TC581718000001790P

TEST REPORT

QA.15.0.0.3

ISSUED TO :

West Bengal Waste Management Limited
J.L.No.-103,Mouza :Purva Srikrishnapur,PO+PS-Sutahata
Haldia - 721635

KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO. : EFRAC/2018/ENV/01960
ISSUE DATE : 22/12/2018
CUSTOMER REF : TRF
REF. DATE : 07/12/2018
PAGE NO. : 3 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
12	1 2 3 6 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
13	1 2 3 7 8 9- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
14	1 2 3 7 8- Pentachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00072
15	2 3 4 6 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
16	2 3 7 8- Tetrachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0005
17	Octachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.000015
18	Total Dioxins & Furans	ng.TEQ/Nm ³	USEPA 23A/QA.16.4.73	--	<0.01

UOM

: Unit of Measurement

Instruments Used

: HRGC-HRMS

Limit of Quantitation

: 0.01ng.TEQ/Nm³

Remarks

: TEQ:Toxicity Equivalent; O2 % Value-13.4, O2 Correction Factor-1.32 TEF: Toxicity Equivalency Factor given as per WHO-2005



Authorized Signatory
Kishan Pal Singh
Manager



efrac

Edward Food Research & Analysis Centre Limited



Certificate No. : TC-5817

QA.15.0.0.3

ULR-TC581718000001790P

TEST REPORT

ISSUED TO :

West Bengal Waste Management Limited
J.L.No.-103,Mouza :Purva Srikrishnapur,PO+PS-Sutahata
Haldia - 721635

KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO. : EFRAC/2018/ENV/01960
ISSUE DATE : 22/12/2018
CUSTOMER REF : TRF
REF. DATE : 07/12/2018
PAGE NO. : 4 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Heavy Metals					
1	Copper (Cu)	mg/Nm ³	USEPA Method 29	--	<0.0003
2	Lead (Pb)	mg/Nm ³	USEPA Method 29	--	<0.0003
3	Arsenic (As)	mg/Nm ³	USEPA Method 29	--	<0.0003
4	Nickel (Ni)	mg/Nm ³	USEPA Method 29	--	<0.0003
5	Cadmium (Cd)	mg/Nm ³	USEPA Method 29	--	<0.0003
6	Antimony (Sb)	mg/Nm ³	USEPA Method 29	--	<0.0003
7	Vanadium(V)*	mg/Nm ³	Standard Method	--	<0.0003
8	Manganese (Mn)	mg/Nm ³	USEPA Method 29	--	<0.0003
9	Thorium (Th)	mg/Nm ³	USEPA Method 29	--	<0.0003
10	Cobalt (Co)	mg/Nm ³	USEPA Method 29	--	<0.0003
11	Mercury (Hg)	mg/Nm ³	USEPA Method 29	--	<0.0003

UOM : Unit of Measurement
 Instruments Used : ICP-MS
 Limit of Quantitation : 0.01ng.TEQ/Nm³
 Remarks : *Not accredited by NABL



Authorized Signatory
Kishan Pal Singh
Manager

Research & Analysis Centre : Subhas Naagar PO, Nilquni Bazar, Barasat, Kolkata 700 121



efrac

Edward Food Research & Analysis Centre Limited

Certificate No. : TC-5817



ULR-TC581718000001790P

TEST REPORT

QA.15.0.0.3

ISSUED TO :		REPORT NO.	: EFRAC/2018/ENV/01960
West Bengal Waste Management Limited		ISSUE DATE	: 22/12/2018
J.L.No.-103,Mouza :Purva Srikrishnapur,PO+PS-Sutahata		CUSTOMER REF	: TRF
Haldia - 721635		REF. DATE	: 07/12/2018
KIND ATTENTION : Mr.Tarun Kumar Midya		PAGE NO.	: 5 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Environment					
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985, RA 2003	Max.50.0	39.0*
2	Sulphur Dioxide(as SO ₂)	mg/m ³	EPA Method 6C	Max.200.0	75.0*
3	Carbon dioxide (CO ₂)	% v/v	USEPA 3A	--	7.2
4	Carbon Monoxide(CO)	mg/m ³	USEPA 10	Max.100.0	60.0*
5	Oxygen(O ₂)	% v/v	USEPA 3A	--	12.9
6	Oxides Of Nitrogen(NO _x)	mg/m ³	EPA Method 7E	Max.400.0	72.0*
7	Hydrogen Chloride (HCl)	mg/Nm ³	USEPA 26	Max.50.0	1.17
8	Total Hydro Carbon	ppm	In House Method QA.16.5.222 by Analyzer, DOI: 12.01.2017	--	38.0
9	Hydrogen Fluoride (HF)	mg/Nm ³	USEPA 26	Max.4.0	<0.5
10	Total Organic Carbon (TOC)	mg/Nm ³	Approved method for the sampling, analysis of air pollutants, NSWEP, 2007	Max.20.0	<0.5

UOM : Unit of Measurement
 Instruments Used : Semimicro Balance, Flue Gas Analyzer, IC
 Limit of Quantitation : 0.01ng.TEQ/Nm³
 Remarks : Requirements given as per G.S.R. 481(E). *Monitored values corrected to 11% O₂.

- END OF THE TEST REPORT -



Authorized Signatory
Kishan Pal Singh
Manager

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Edward Food Research & Analysis Centre Limited



Certificate No. : TC-5817

ULR-TC581718000001166P

QA.15.0.0.3

TEST REPORT

ISSUED TO :	REPORT NO.	: EFRAC/2018/ENV/01637
West Bengal Waste Management Ltd.	ISSUE DATE	: 10/10/2018
(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :	CUSTOMER REF	: TRF
Purba Srikrishnapur, Sutahata, Purba Medinipur	REF. DATE	: 25/09/2018
Haldia - 721635	PAGE NO.	: 1 of 5
KIND ATTENTION : Mr.Tarun Kumar Midya		

SAMPLE DETAILS

SAMPLE REGISTRATION DETAILS			
Date and Time of Sampling	: 25/09/2018	Sampling Location	: Circular
Sample Registration No	: EFRAC/2018/ENV/01637	Sample Registration Date	: 27/09/2018
Sample Type	: Incinerator Stack	Sample Drawn by	: EFRAC
Analysis Starting Date	: 28/09/2018	Analysis Completion Date	: 09/10/2018

GENERAL INFORMATION ABOUT STACK

Stack identification no	: Incinerator Stack
Shape of stack	: Circular
Stack connected to	: Common Hazardous Waste Incinerator
Emission due to	: Burning of HSD & Incineration Process
Stack height from ground level(m)	: 55.5 m
Height of sampling point from ground level(m)	: 22.5 m
Stack diameter at sampling point(m)	: 0.78 m
Material of construction of stack	: MS
Installed Capacity	: 1500 Kg/hr
Running capacity	: 900 Kg/hr
Fuel used	: HSD
Fuel consumption	: 180 Lit/hr
Platform & ladder type & condition	: Permanet & Will
Pollution Control Device	: Bag Filter, Wet Scrubber & Dry Scrubber
Remarks	: N/A



Authorized Signatory
Kishan Pal Singh
Manager

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Phone +91 33 7112 2800, Fax: +91 33 7112 2801, Email: efraclab@efrac.org



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Certificate No. : TC-5817

ULR-TC581718000001166P

TEST REPORT

QA.15.0.0.3

ISSUED TO :

West Bengal Waste Management Ltd.
(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :
Purba Srikrishnapur, Sutahata, Purba Medinipur
Haldia - 721635
KIND ATTENTION : Mr.Tarun Kumar Midya

REPORT NO. : EFRAC/2018/ENV/01637
ISSUE DATE : 10/10/2018
CUSTOMER REF : TRF
REF. DATE : 25/09/2018
PAGE NO. : 2 of 5

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Dioxin					
1	1 2 3 4 6 7 8- Heptachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
2	1 2 3 4 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
3	1 2 3 7 8 9- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
4	1 2 3 7 8- Pentachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.024
5	2 3 7 8-Tetrachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.005
6	1 2 3 6 7 8- Hexachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024
7	Octachlorodibenzo-p-dioxin	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.000015
8	2 3 4 7 8- Pentachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0072
9	1 2 3 4 6 7 8- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
10	1 2 3 4 7 8 9- Heptachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.00024
11	1 2 3 4 7 8- Hexachlorodibenzofuran	ng.TEQ	USEPA 23A/QA.16.4.73	--	<0.0024

UOM : Unit of Measurement
Instruments Used : HRGC-HRMS
Limit of Quantitation : 0.01ng.TEQ/Nm³
Remarks : TEQ: Toxicity Equivalent; O2 % Value-12.8, O2 Correction Factor-1.22 TEF: Toxicity Equivalency Factor given as per WHO-2005



Authorized Signatory
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Manager

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(A Division of RAMKEY Enviro Engineers Ltd) J.L.No-103, Mouza :	CUSTOMER REF : TRF
Purba Srikrishnapur, Sutahata, Purba Medinipur	REF. DATE : 25/09/2018
Haldia - 721635	PAGE NO. : 5 of 5
KIND ATTENTION : Mr.Tarun Kumar Midya	

TEST RESULT

S. No.	TEST PARAMETER	UOM	METHOD	REQUIREMENTS	RESULTS
Environment					
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985, RA 2003	--	88.0
2	Sulphur Dioxide(as SO ₂)	mg/m ³	EPA Method 6C	--	57.0
3	Oxides Of Nitrogen(NO _x)	mg/m ³	EPA Method 7E	--	75.0
4	Carbon Monoxide(CO)	mg/m ³	USEPA 10	--	37.0
5	Carbon dioxide (CO ₂)	% v/v	USEPA 3A	--	7.5
6	Oxygen (O ₂)	% v/v	USEPA 3A	--	13.2
7	Hydrogen Chloride (HCl)*	mg/Nm ³	USEPA 26	--	<0.5
8	Total Hydro Carbon	CFU/0.1gm	Approved method for the sampling, analysis of air pollutants, NSW EPA, 2007	--	-
9	Hydrogen Fluoride (HF)*	mg/Nm ³	USEPA 26	--	<0.5
10	Total Organic Carbon (TOC)*	mg/Nm ³	Approved method for the sampling, analysis of air pollutants, NSW EPA, 2007	--	<0.5

UOM : Unit of Measurement

Instruments Used : Semimicro Balance, IC, Stack Sampling Kit, Flue Gas Analyzer, GC(FID)

Limit of Quantitation : 0.01ng.TEQ/Nm³

Remarks : TEQ: Toxicity Equivalent; O₂ % Value-12.8, O₂ Correction Factor-1.22 TEF: Toxicity Equivalency Factor given as per WHO-2005

* Not accredited by NABL - END OF THE TEST REPORT -

Authorized Signatory
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NABL
Accredited Laboratory
Certificate No. : T-2933

WEST BENGAL WASTE MANAGEMENT LTD.

WBWML/GF/LAB-316

(A Division of RAMKY Enviro Engineers Ltd.)
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Dist. : Purba Midnapore, State : West Bengal
T : 03224-278238/39, Fax : 278240
E-mail : laboratorywbwml@ramky.com

LABORATORY



(Recognized by WBPCB)

TEST REPORT

Name and Address of Customer : WBWML- HALDIA (IN-HOUSE)
Sample Description : Waste Water
Sampling Location : BMW shed wash sump
Date of Sampling : 1st October'2018
Sampling Method : WBWML/SOP/LAB/101
Sample Collected by : WBWML- Laboratory
Sample Registration No. and Date : WQM-1810-04, 1st October'2018
Analysis Starting Date : 1st October'2018
Analysis Completion Date : 8th October'2018
Report No. and Date : WQMR-1810-04, 8th October'2018

TEST RESULT

Sl. No.	Parameter	Unit	Method	Result
1	pH (at 25.0°C)	-	APHA 23 rd Edition, 2017, 4500-H' B *	6.88
2	Electrical Conductivity (at 25.0°C)	µS/cm	APHA 23 rd Edition, 2017, 2510 B *	4365.0
3	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition, 2017, 5220 B *	109.27
4	Total Suspended Solid, dried at 103- 105 °C	mg/L	APHA 23 rd Edition, 2017, 2540 D *	53.0
5	Total Dissolved Solid, dried at 180 °C	mg/L	APHA 23 rd Edition, 2017, 2540 C *	3372.0
6	Chloride, as Cl ⁻	mg/L	APHA 23 rd Edition, 2017, 4500-Cl B *	1873.09
7	Sulfate, as SO ₄ ²⁻	mg/L	APHA 23 rd Edition, 2017, 4500-SO ₄ ²⁻ D *	235.44
8	Cadmium, as Cd	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Cd *	< 0.02
9	Chromium, as Cr	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Cr *	< 0.20
10	Copper, as Cu	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Cu *	< 0.02
11	Lead, as Pb	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Pb *	< 0.20
12	Nickel, as Ni	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Ni *	0.10
13	Zinc, as Zn	mg/L	APHA 23 rd Edition, 2017, 3111 B and 3500-Zn *	< 0.01
14	Oil and Grease	mg/L	APHA 23 rd Edition, 2017, 5520 B *	1.20

Note:

*Standard Methods for The Examination of Water and Wastewater, 23rd Edition, 2017
American Public Health Association, American Water Works Association, Water Environment Federation

(Chemist - Lab.)
Checked by

Tarun Kumar Middya
(Asst. Manager - Lab.)
Authorized Signatory



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Dist. : Purba Midnapore, State : West Bengal
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E-mail : laboratorywbwml@ramky.com



LABORATORY
(Recognized by WBPCB)

TEST REPORT

Name and Address of Customer : WBWML- HALDIA (IN-HOUSE)
Sample Description : Waste Water
Sampling Location : BMW shed wash sump
Date of Sampling : 6th November'2018
Sampling Method : WBWML/SOP/LAB/101
Sample Collected by : WBWML- Laboratory
Sample Registration No. and Date : WQM-1811-04, 6th November'2018
Analysis Starting Date : 6th November'2018
Analysis Completion Date : 13th November'2018
Report No. and Date : WQMR-1811-04, 13th November'2018

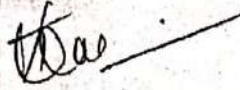
TEST RESULT


Sl. No.	Parameter	Unit	Method	Result
1	pH (at 25.0°C)	-	APHA 23 rd Edition, 2017; 4500-H* B *	7.30
2	Electrical Conductivity (at 25.0°C)	µS/cm	APHA 23 rd Edition, 2017; 2510 B *	4465.0
3	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition, 2017; 5220 B *	95.24
4	Total Suspended Solid, dried at 103- 105 °C	mg/L	APHA 23 rd Edition, 2017; 2540 D *	16.0
5	Total Dissolved Solid, dried at 180 °C	mg/L	APHA 23 rd Edition, 2017; 2540 C *	3472.0
6	Chloride, as Cl ⁻	mg/L	APHA 23 rd Edition, 2017; 4500-Cl* B *	1902.82
7	Sulfate, as SO ₄ ²⁻	mg/L	APHA 23 rd Edition, 2017; 4500-SO ₄ ²⁻ D *	181.93
8	Cadmium, as Cd	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cd *	< 0.02
9	Chromium, as Cr	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cr *	< 0.20
10	Copper, as Cu	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cu *	< 0.02
11	Lead, as Pb	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Pb *	< 0.20
12	Nickel, as Ni	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Ni *	< 0.04
13	Zinc, as Zn	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Zn *	0.17
14	Oil and Grease	mg/L	APHA 23 rd Edition, 2017; 5520 B *	1.29

Towards sustainable growth

Note:

Standard Methods for The Examination of Water and Wastewater, 23rd Edition, 2017
American Public Health Association, American Water Works Association, Water Environment Federation


(Chemist - Lab.)
Checked by


Tarun Kumar Middya
(Asst. Manager - Lab.)
Authorized Signatory



WEST BENGAL WASTE MANAGEMENT LTD.

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 E-mail : laboratorywbwml@ramky.com
 CIN : U90002WB2004PLC098219

WBWML/GF/LAB-316



LABORATORY (Recognized by WBPCB)

TEST REPORT

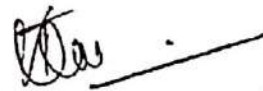
Name and Address of Customer : WBWML- HALDIA (IN-HOUSE)
 Sample Description : Waste Water
 Sampling Location : BMW shed wash sump
 Date of Sampling : 3rd December'2018
 Sampling Method : WBWML/SOP/LAB/101
 Sample Collected by : WBWML- Laboratory
 Sample Registration No. and Date : WQM-1812-04, 3rd December'2018
 Analysis Starting Date : 3rd December'2018
 Analysis Completion Date : 17th December'2018
 Report No. and Date : WQMR-1812-04, 17th December'2018

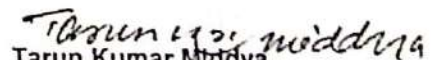
TEST RESULT

Sl. No.	Parameter	Unit	Method	Result
1	pH (at 25.0°C)	-	APHA 23 rd Edition, 2017; 4500-H ⁺ B *	7.26
2	Electrical Conductivity (at 25.0°C)	µS/cm	APHA 23 rd Edition, 2017; 2510 B *	4592.0
3	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition, 2017; 5220 B *	99.45
4	Total Suspended Solid, dried at 103- 105 °C	mg/L	APHA 23 rd Edition, 2017; 2540 D *	22.0
5	Total Dissolved Solid, dried at 180 °C	mg/L	APHA 23 rd Edition, 2017; 2540 C *	3628.0
6	Chloride, as Cl ⁻	mg/L	APHA 23 rd Edition, 2017; 4500-Cl ⁻ B *	2065.20
7	Sulfate, as SO ₄ ²⁻	mg/L	APHA 23 rd Edition, 2017; 4500-SO ₄ ²⁻ D *	195.10
8	Cadmium, as Cd	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cd *	< 0.02
9	Chromium, as Cr	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cr *	< 0.20
10	Copper, as Cu	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Cu *	< 0.02
11	Lead, as Pb	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Pb *	< 0.20
12	Nickel, as Ni	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Ni *	< 0.13
13	Zinc, as Zn	mg/L	APHA 23 rd Edition, 2017; 3111 B and 3500-Zn *	< 0.01
14	Oil and Grease	mg/L	APHA 23 rd Edition, 2017; 5520 B *	1.20

Note:

Standard Methods for The Examination of Water and Wastewater, 23rd Edition, 2017
 American Public Health Association, American Water Works Association, Water Environment Federation


 (Chemist - Lab.)
 Checked by


 Tarun Kumar Mittal
 (Asst. Manager - Lab.)
 Authorized Signatory

Towards sustainable growth

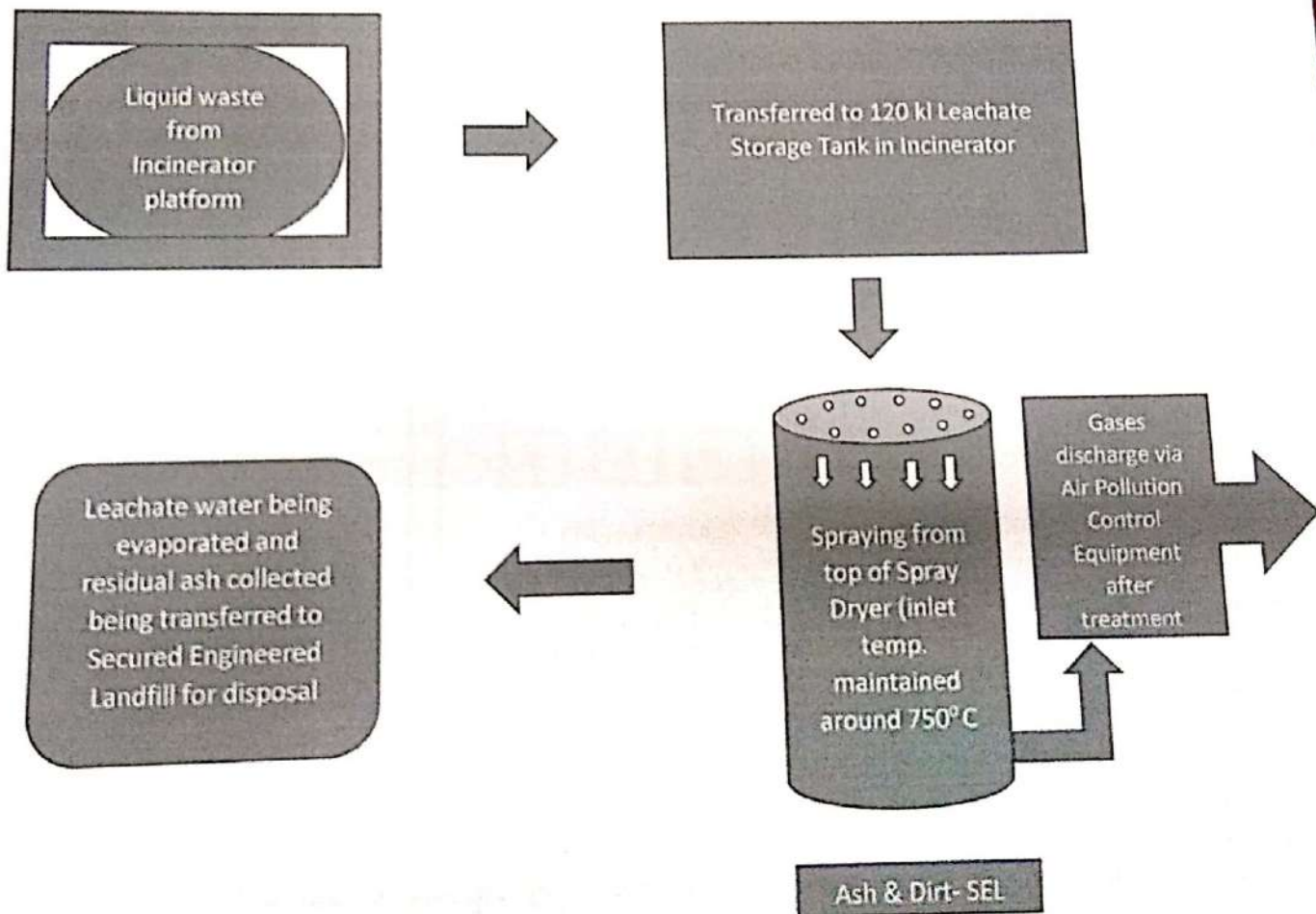
P.T.C

West Bengal Waste Management Limited

Liquid waste flow from its place of generation up to final discharge:

WBWML, Haldia been declared as a zero leachate discharge site is being maintained technically by means of spraying of leachate in Spray Dryer of Incinerator and through evaporation in Solar Evaporation Pond. Rest liquid waste from canteen and washing is being treated through in house soak pit, diagrams are being attached herewith with necessary description:

Liquid waste water generated from leachate platform and other process in incinerator is being transferred to Leachate storage tank in incinerator, therefrom by means of regular pumping, waste water is being sprayed from top of spray dryer in incinerator. This been done in a recirculating way on regular basis resulting in zero disposal of leachate. Ashes formed being disposed in Secured Engineered Landfill, whereas gases being passed to Air pollution control equipments for treatment.



P. Prath

West Bengal Waste Management Limited



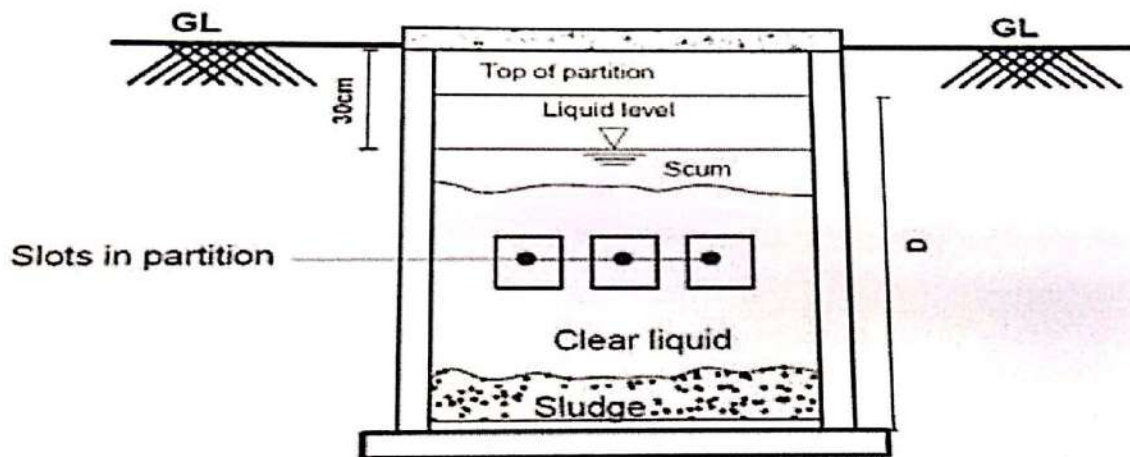
Fig: 1 Leachate Storage tank



Fig: 2 Spray Dryer

(Transferring from platform to Storage tank, later being Sprayed through leachate pump gland to top of spray dryer)

Treatment through in-house soak pit is done for water generated from washing and canteen by physical means. Diagram is being attached below with description:



The baffle wall prevents the scum from flowing out of the septic tank without treatment. It also facilitates in the smooth settling of the sludge. The baffle wall has slots or openings that allow the sewage to flow from one compartment to another as shown. The openings are designed to minimise the turbulence by ensuring an average maximum velocity of 0.1m/s. The opening must be in the middle of the clear zone and not in the sludge or scum layers. A clear gap of 6 inches is maintained between the slab and the top of the baffle wall as ventilation space.

R. Prath

West Bengal Waste Management Limited

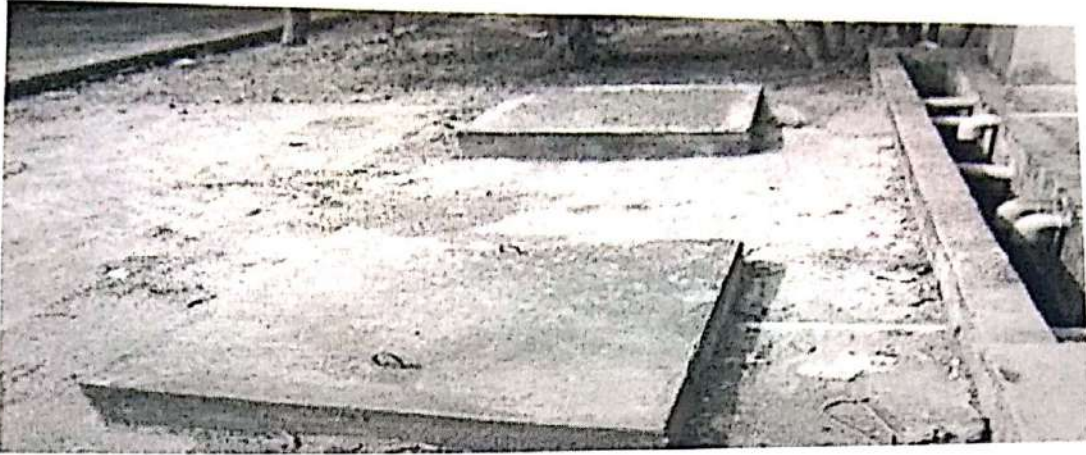


Fig 3: Inhouse Soakpit

State Pollution Control Board's recognized laboratory used to perform testing of the canteen water and the result being submitted through quarterly report to Board.

No water is being discharged outside, because of the treatment methodologies present in site.

IPmth

West Bengal Waste Management Limited

Employee list of Vaccination for 2018-19

S. No.	Department	Sectors	Workers	Hepatitis B		Tetanus	
				14/02/19	29/03/19	14/02/19	29/03/19
1.	BMW	Helper	SUCHANDAN DAS	Provided	Provided	Provided	Provided
2.			RUHUL AMIN	Provided	Provided	Provided	Provided
3.			UTTAM DEY	Provided	Provided	Provided	Provided
4.			BIVAS SARKAR	Provided	Provided	Provided	Provided
5.			GOPAL DAS	Provided	Provided	Provided	Provided
6.			RAZZAK HOSSAIN	Provided	Provided	Provided	Provided
7.			SK. MANNI UDDIN	Provided	Provided	Provided	Provided
8.	BMW	Workesr at site	MIRZA ZAHIRUL	Provided	Provided	Provided	Provided
9.			SK. MUSU	Provided	Provided	Provided	Provided
10.			SK. AHMEDULLA	Provided	Provided	Provided	Provided
11.			SAHADAT MALLICK	Provided	Provided	Provided	Provided
12.			SK SABBIR ALI	Provided	Provided	Provided	Provided
13.	Incinerator	Workers in Incinerator Handling BMW	SAHAJANI	Provided	Provided	Provided	Provided
14.			JAHANGIR	Provided	Provided	Provided	Provided
15.			ASHIJUL	Provided	Provided	Provided	Provided
16.			THAIJUL	Provided	Provided	Provided	Provided
17.			SK SAFIQ	Provided	Provided	Provided	Provided
18.			TAPAS SANKI	Provided	Provided	Provided	Provided
19.			FAJULU	Provided	Provided	Provided	Provided
20.			MOFI	Provided	Provided	Provided	Provided
21.			JAINAUDDIN	Provided	Provided	Provided	Provided
22.			ABUKALAM	Provided	Provided	Provided	Provided
23.			MOHON DAS	Provided	Provided	Provided	Provided
24.			SANTOSH	Provided	Provided	Provided	Provided
25.	Incinerator Shed	Incin Shed workers handling for Hazardous waste	S K RABI AL	NA		Provided	Provided
26.			AMIRUDDIN			Provided	Provided
27.			ASARAF			Provided	Provided
28.			TAPAN CHAKRABORTY			Provided	Provided

Authorized Signatory

P. Pratih

(Partha Pratim Nath)

Operations- Env.