



Ramky Energy and Environment Limited

Plot No. 47/B, Karnad Industrial Area,
KIADB-Mulki - 574 154, Mangalore, D. K. (Dist.)
Tel. : 0824-2294966
E-mail : reaemngl@ramky.com

Towards sustainable growth

REAEL/KSPCB/008/18-19
Date: 20.06.2018

To
The Environmental Officer,
Karnataka State Pollution Control Board,
"Parisara Bhavana",
Kathihalli, Indra Nagar
HASSAN - 573220.

Dear Sir,

Sub: Submission of Annual Reports-2017. (Hassan Dist.)

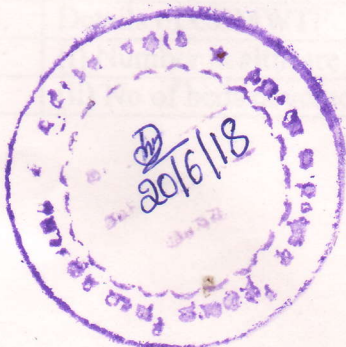
With reference to the above subject, we are enclosing herewith Annual Report for the year 2017 Bio-Medical Waste collection from Hassan District Health Care Establishments, as per your requirement.

Kindly acknowledge the receipt and do the needful.

Thanking You,

For Ramky Energy & Environment Ltd
For Ramky Energy & Environment Ltd.

Authorized Signatory



Form - IV (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	: Ramky Energy & Environment Ltd
	(i) Name of the authorised person (occupier or : operator of facility)	T.K Sridhar
	(ii) Name of HCF or CBMWTF	: Ramky Energy & Environment Ltd
	(iii) Address for Correspondence	: Plot No . 47/B , Karnad Industrial Area, KIADB, Mulki, Mangalore – 574 154
	(iv) Address of Facility	: Plot No . 47/B , Karnad Industrial Area, KIADB, Mulki, Mangalore – 574 154
	(v) Tel. No, Fax. No	: 0824-2294966
	(vi) E-mail ID	: reaemngl@ramky.com
	(vii) URL of Website	: http://www.envirotechlive.com
	(viii) GPS coordinates of HCF or CBMWTF	: Installed
	(ix) Ownership of HCF or CBMWTF	:
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	: Expired by 30 th June 2018, Applied for renewal
	(xi). Status of Consents under Water Act and Air Act	: valid for the period from 09.08.2016 to 30.06.2021
2.	Type of Health Care Facility	: Bio Medical Waste Management
	(i) Bedded Hospital	:
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:
	(iii) License number and its date of expiry	:
3.	Details of CBMWTF	:
	(i) Number healthcare facilities covered by CBMWTF	: 82
	(ii) No of beds covered by CBMWTF	: 565

	(iii) Installed treatment and disposal capacity of CBMWTF:	:	2500kg/day																																																
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	83 kg/day																																																
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category : 70 kg/day Red Category : 8 kg/day White: 2 kg/day Blue Category :3 kg/day General Solid waste: NA																																																
Details of the Storage, treatment, transportation, processing and Disposal Facility																																																			
5	(i) Details of the on-site storage facility	:	Size :CBMWTF Capacity : 2 rooms 20x20 and 1 room 10x10 Provision of on-site storage : (cold storage or any other provision)																																																
	disposal facilities		<table border="1"> <thead> <tr> <th>Type of treatment equipment</th> <th>No of units</th> <th>Capacity Kg/day</th> <th>Quantity treated or disposed in kg per annum</th> </tr> </thead> <tbody> <tr> <td>Incinerators</td> <td>2</td> <td>250kg/hr & 120kg/hr</td> <td></td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>--</td> <td></td> <td></td> </tr> <tr> <td>Autoclaves</td> <td></td> <td>430 ltrs/one cycle</td> <td></td> </tr> <tr> <td>Microwave</td> <td>--</td> <td></td> <td></td> </tr> <tr> <td>Hydroclave</td> <td>--</td> <td></td> <td></td> </tr> <tr> <td>Shredder</td> <td>2</td> <td>120 kg/hr</td> <td></td> </tr> <tr> <td>Needle tip cutter or destroyer</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sharps encapsulation or concrete pit</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Deep burial pits:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Chemical disinfection:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Any other treatment equipment:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Type of treatment equipment	No of units	Capacity Kg/day	Quantity treated or disposed in kg per annum	Incinerators	2	250kg/hr & 120kg/hr		Plasma Pyrolysis	--			Autoclaves		430 ltrs/one cycle		Microwave	--			Hydroclave	--			Shredder	2	120 kg/hr		Needle tip cutter or destroyer				Sharps encapsulation or concrete pit				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																																																
Incinerators	2	250kg/hr & 120kg/hr																																																	
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Sharps encapsulation or concrete pit																																																			
Deep burial pits:																																																			
Chemical disinfection:																																																			
Any other treatment equipment:																																																			

	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	:	Red Category (like plastic, glass etc.) 4015 kgs									
	(iv) No of vehicles used for collection and transportation of biomedical waste	:	7 No's									
	(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum		<table border="1"> <thead> <tr> <th></th> <th>Quantity generated</th> <th>Where disposed</th> </tr> </thead> <tbody> <tr> <td>Incineration Ash</td> <td>730kgs</td> <td>Karnataka Waste Management Project</td> </tr> <tr> <td>ETP Sludge</td> <td>36kgs</td> <td></td> </tr> </tbody> </table>		Quantity generated	Where disposed	Incineration Ash	730kgs	Karnataka Waste Management Project	ETP Sludge	36kgs	
	Quantity generated	Where disposed										
Incineration Ash	730kgs	Karnataka Waste Management Project										
ETP Sludge	36kgs											
	(vi) Name of the Common Bio- : Medical Waste Treatment Facility Operator through which wastes are disposed of		Ramky Energy & Environment Ltd									
	(vii) List of member HCF not handed over bio-medical waste.											
6	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period											
7	Details trainings conducted on BMW											
	(i) Number of trainings conducted on BMW Management		12									
	(ii) number of personnel trained											
	(iii) number of personnel trained at the time of induction											
	(iv) number of personnel not undergone any training so far		--									
	(v) whether standard manual for training is available?											
	(vi) any other information)											
8	Details of the accident occurred during the year		No									
	(i) Number of Accidents occurred											
	(ii) Number of the persons affected											
	(iii) Remedial Action taken (Please attach details if any)											
	(iv) Any Fatality occurred, details.											
9.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?		Yes									
	Details of Continuous online emission monitoring systems installed		Installed									

10	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		Almost met the standards
11	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?		Almost met
12	Any other relevant information	:	--

Certified that the above report is for the period from 01.01.2017 to 31.12.2017

Date:26.05.2018

Place;

Name and Signature of the Head of the Institution
For Ramky Energy & Environment Ltd.

Narayan

Authorised Signature

Narayan
Authorised Signature



Part -4 (Information on Common Bio-Medical Waste Treatment Facility (CBWTF) for the year 2017-18)

SI No	Name and Address of CBWTF with contact person, name and telephone no.	GPS Coordinates	Cover age Area in KMS	Name of Cities/Areas covered by CBWTF	Total No. of HCFs being covered	Total no. of beds covered	Total Quantity of BMW collected from member HCFs (in Kg/day)	Capacity of Treatment equipments installed at CBWTF			Total bio-medical waste treated in kg/day	Method of Disposal of treated waste s (Incineration Ash/Sharps/Plastics
								Equipment	Nos.	Total installed capacity in Kg/day		
1	Ramky Energy & Environment Ltd, Plot No 47/B Karnad Industrial Area, KIADB, Mulki, Mangalore - 574 154 T.K Sridhar 7760714743	Installed 13.0711159 74.797935		Hassan Dist.	82	565	83 kg/day	Incinerator 2 250 kg/hr & 120 kg/hr	2	83 kg/day	Incineration Ash: Karnataka Waste Management Project	
								Plasma Pyrolysis	--	--	Quantity: Disposed by: NA	
								Autoclave	1	20 kg/day	Sharps: After autoclaving and treatment	
								Hydroclave	--	--	Quantity: Disposed by : NA	
								Microwave	NA	NA	Plastics: NA	
								Shredder	2	120 kg/hr	Quantity: Disposed by: Quantity disposed to recycler after proper treatment and shredding	
								Sharps encapsulation or concrete pit	NA	NA		
								Deep burial pits	NA	NA		
								Any Other equipment			Quantity: Disposed by: NA	
								Effluent Treatment Plant	1	3.5KLD		
								Sub-total				

For Ramky Energy & Environment Ltd.

(Handwritten Signature)

Authorised Signature



Ramky Energy and Environment Limited

Plot No. 47/B, Karnad Industrial Area,
KIADB-Mulki - 574 154, Mangalore, D. K. (Dist.)
Tel. : 0824-2294966
E-mail : reaemngl@ramky.com

REael/KSPCB/004/18-19
Date: 11.05.2018

To
The Environmental Officer,
Karnataka State Pollution Control Board,
"Parisara Bhavana",
10B, Baikampady Industrial Area
MANGALORE- 575 011.

Dear Sir,

Sub: Submission of Annual Reports-2017. (Dakshina Kannada Dist.)

With reference to the above subject, we are enclosing herewith Annual Report for the year 2017 Bio-Medical Waste collection from Dakshina Kannada District Health Care Establishments, as per your requirement.

Kindly acknowledge the receipt and do the needful.

Thanking You,

For Ramky Energy & Environment Ltd



Authorized Signatory

REGIONAL OFFICE
Karnataka State Pollution Control Board
Plot No.10-B, Baikampady Industrial Area
MANGALORE-575011

21/06/18

Form IV A

(See rule 13 (2))

Format for submission of the Annual Report Information on Bio-Medical Waste (to be submitted by the State Pollution Control Board or Pollution Control Communities and Director General Armed forces Medical Services to Central Pollution Control Board on or before 31 July of every for the period from January to December of the preceding year.

(1)	Name of the Organization	Ramky Energy & Environment Ltd
(2)	Name of Nodal Officer with Contact Telephone number and e-mail	
(3)	Total no. of Health Care Facilities/ Occupiers	498
(i)	Bedded Hospital and Nursing Homes (Bedded)	61
(ii)	Clinics dispensaries	3
(iii)	Veterinary Instaurations	1
(iv)	Animal houses	-
(v)	Pathological Laboratories	4
(vi)	Blood Banks	2
(vii)	Clinical establishment	427
(viii)	Research Institutions	-
(ix)	AYUSH	-
(4)	Total no. of beds	6262
5	Status of Authorization	Expired by 30 th June 2018, Applied for renewal
(i)	Total no. of Occupiers applied for authorization	8
(ii)	Total no. of Occupiers granted authorization	490
(iii)	Total number of Occupiers under authorization	8
(iv)	Total number of applications rejected	Nil
(v)	Total number of operation without applying for authorization	Nil
(6)	Quantity of Bio-Medical Waste Generation (in kg/Day) (Pease enclose District wise Bio-Medical Waste Generation as per Part-2)	1132 kg /day
(i)	Bio-Medical Waste generation by Bedded Hospitals (in kg/day)	857 kg/day
(ii)	Bio-Medical Waste generation by non-bedded Hospitals (in kg/day)	275 kg / day
(iii)	Any other	---
		Total : ----- kg/day
(7)	Bio-Medical waste treatment and disposal	
(a)	By Captive bio-medical waste treatment and disposal by Health Care Facilities (please enclosed details as per (part-3)	--
(i)	Number of Health Care Facilities having capture treatment and Disposal facilities.	---
(ii)	Total bio-Medical waste treated and disposed by captive treatment facilities in kg/day.	2500 kg/day



(b)	Bio-Medical waste treatment and disposal by Common Bio-Medical Waste Treatment facility (please enclosed details as per (part-4)	
(i)	Number of Common Bio-Medical Waste Treatment Facilities in operation	
(ii)	Number of Common Bio-Medical Waste Treatment Facilities under construction	
(iii)	Total bio-medical waste treated in kg/day	300 kg/day
(iv)	Total treated waste disposed and through authorized recyclers (in kg/day)	--
(8)	Total no. of violation by	---
(i)	Health care facilities (bedded and non-bedded)	---
(ii)	Common Bio-Medical Waste Treatment Facilities	---
(iii)	Others (please specify)	---
(9)	Show cause notice/direction issued to defaulter	one
(i)	Common Bio-Medical Waste Treatment Facilities	---
(iii)	Others	----
(10)	Any other relevant information	----
(i)	Number of work shop /training conducted during the year	12
(ii)	Number of occupier installed liquid waste treatment facility	----
(iii)	Number of captive incinerators complying to the norms	
(iv)	Number of occupier organized trainings	
(v)	Number of occupiers conducted Bio-Medical Waste Management Communities	
(vi)	Number of occupier submitted Annual report for the previous calendar year	
(vii)	Number of occupiers practicing the pre-treatment of lab microbiology and Bio-Technology waste	
(viii)	Number of Common Bio-Medical Waste Treatment Facilities that have installed Continues Online Emission Monitoring System	Installed

Part-2: District-wise Bio-Medical waste Generation (for the previous calendar year 2017_)

Sl. No	Name of the State/union Territory	Name of the State/union Territory	Bio-Medical waste Generation(in kg/day)	Total Bio-Medical waste treatment capacity (both captive and CBMWTF) in kg/day	
				Equipment	Total
	Karnataka	Dakshina kannada	1132 kg/day	Incinerator	2 No's 250 Kg/Hr & 120 kg/Hr
				Deep burial	
				Any other	



Part-3: Information on Health care Facilities having captive treatment facilities (for the previous calendar year.2017)

Sl. No	Name and address of the Health care Facility	Quantity of Bio-Medical waste Generation (in kg/day)				Total Bio-Medical waste generated (in kg/day)	Total installed treatment capacity (in kg/day)				Total Bio-Medical waste treated and disposed by Health care facilities (in kg/day)
		Yellow	Red	Blue	White		Incinerator	Autoclave	Shredder	Any other	
	Ramky Energy & Environment Ltd, Plot No . 47/B , Karnad Industrial Area, KIADB, Mulki, Mangalore – 574 154	800 kg/day	200 kg/day	102 kg/day	30 kg/day	1132 kg/day	250 kg/hr & 120 kg/hr	430 ltrs/one cycle	120 kg/hr each 2 no's	NA	800 kg/day
											332 kg/day

											1132 kg/day



Sl. No	Name and address of the Common Bio-Medical Waste Treatment Facility with contact person name and telephone number	GPS Coordinates	Coverage area in KMS	Number of cities/are covered by common Biomedical waste treatment facilities	Total no. of Health care Facilities being covered	Total no. of beds covered	Total Quantity of Bio-medical waste collected from member Health care facilities (in kg/day)	Capacity of Treatment equipments installed by Common Bio-Medical Waste Treatment Facilities	Total Bio-medical waste treated (in kg/day)	Method of Disposal of treated waste incineration/Ash/sharps/plastic			
								Equipm ent	Num bers	Total installed capacity kg/day			
	Ramky Energy & Environment Ltd, Plot No . 47/B , Karnad Industrial Area, KIADB, Mulki, Mangalore – 574 154 T.K Sridhar 7760714743	Installed 13.0711159 74.797935	150 kmts 13.0711159 74.797935	Dakshina Kannada	498	6262	1132 kg/day	Incinerator Plasma Pyrolysis	2 -- --	250 kg/hr & 120 kg/hr --- ---	800 kg/day ---	Incineration ash Quantity Disposed by: Karnataka Waste Management Project 32kg/day	Sharps quantity disposed by 30 kg/day
								Autoclave Hydroclave	1 ---	430 ltrs one cycle ---	300 kg/day ---		



- (a) Total no. of transportation vehicles used for collection of Bio-Medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities : 7 no's
- (b) List of health care facility not having member ship with the Common Bio-Medical Waste Treatment Facility with and neither having captive treatment facilities:
- (c) Number trainings organized by the Common Bio-Medical Waste Treatment Facility Operators: 12
- (d) Number of accidents reported by Common Bio-Medical Waste Treatment Facilities: NIL





Ramky Energy and Environment Limited

Plot No. 47/B, Karnad Industrial Area,
KIADB-Mulki - 574 154, Mangalore, D. K. (Dist.)
Tel. : 0824-2294966
E-mail : reaelmngl@ramky.com

REAEL/KSPCB/007/18-19
Date: 26.05.2018

To

The Member Secretary,
Karnataka State Pollution Control Board,
Udupi dist,
Udupi.

Dear Sir,

Sub: Submission of Annual Reports-2017. (Udupi Dist.)

With reference to the above subject, we are enclosing herewith Annual Report for the year 2017 Bio-Medical Waste collection from Udupi District Health Care Establishments, as per your requirement.

Kindly acknowledge the receipt and do the needful.

Thanking You,

For Ramky Energy & Environment Ltd

Authorized Signatory



Form IV A
(See rule 13 (2))

Format for submission of the Annual Report Information on Bio-Medical Waste (to be submitted by the State Pollution Control Board or Pollution Control Communities and Director General Armed forces Medical Services to Central Pollution Control Board on or before 31 July of every year for the period from January to December of the preceding year.

(1)	Name of the Organization	Ramky Energy & Environment Ltd
(2)	Name of Nodal Officer with Contact Telephone number and e-mail	
(3)	Total no. of Health Care Facilities/ Occupiers	220
(i)	Bedded Hospital and Nursing Homes (Bedded)	20
(ii)	Clinics dispensaries	2
(iii)	Veterinary Instaurations	1
(iv)	Animal houses	-
(v)	Pathological Laboratories	27
(vi)	Blood Banks	--
(vii)	Clinical establishment	170
(viii)	Research Institutions	-
(ix)	AYUSH	-
(4)	Total no. of beds	2208
5	Status of Authorization	Expired by 30 th June 2018, Applied for renewal
(i)	Total no. of Occupiers applied for authorization	
(ii)	Total no. of Occupiers granted authorization	
(iii)	Total number of Occupiers under authorization	
(iv)	Total number of applications rejected	Nil
(v)	Total number of operation without applying for authorization	Nil
(6)	Quantity of Bio-Medical Waste Generation (in kg/Day) (Please enclose District wise Bio-Medical Waste Generation as per Part-2)	1285kg /day
(i)	Bio-Medical Waste generation by Bedded Hospitals (in kg/day)	1064kg/day
(ii)	Bio-Medical Waste generation by non-bedded Hospitals (in kg/day)	221kg / day
(iii)	Any other	---
		Total : 1285 kg/day
(7)	Bio-Medical waste treatment and disposal	
(a)	By Captive bio-medical waste treatment and disposal by Health Care Facilities (please enclosed details as per (part-3)	--
(i)	Number of Health Care Facilities having capture treatment and Disposal facilities.	---
(ii)	Total bio-Medical waste treated and disposed by captive treatment facilities in kg/day.	2500 kg/day

(b)	Bio-Medical waste treatment and disposal by Common Bio-Medical Waste Treatment facility (please enclosed details as per (part-4)	
(i)	Number of Common Bio-Medical Waste Treatment Facilities in operation	
(ii)	Number of Common Bio-Medical Waste Treatment Facilities under construction	
(iii)	Total bio-medical waste treated in kg/day	
(iv)	Total treated waste disposed and through authorized recyclers (in kg/day)	--
(8)	Total no. of violation by	---
(i)	Health care facilities (bedded and non-bedded)	---
(ii)	Common Bio-Medical Waste Treatment Facilities	---
(iii)	Others (please specify)	---
(9)	Show cause notice/direction issued to defaulter	----
(i)	Common Bio-Medical Waste Treatment Facilities	---
(iii)	Others	----
(10)	Any other relevant information	----
(i)	Number of work shop /training conducted during the year	12
(ii)	Number of occupier installed liquid waste treatment facility	----
(iii)	Number of captive incinerators complying to the norms	
(iv)	Number of occupier organized trainings	
(v)	Number of occupiers conducted Bio-Medical Waste Management Communities	
(vi)	Number of occupier submitted Annual report for the previous calendar year	
(vii)	Number of occupiers practicing the pre-treatment of lab microbiology and Bio-Technology waste	
(viii)	Number of Common Bio-Medical Waste Treatment Facilities that have installed Continues Online Emission Monitoring System	Installed

Part-2: District-wise Bio-Medical waste Generation (for the previous calendar year 2017_)

Sl. No	Name of the State/union Territory	Name of the State/union Territory	Bio-Medical waste Generation(in kg/day)	Total Bio-Medical waste treatment capacity (both captive and CBMWTF) in kg/day	
				Equipment	Total
	Karnataka		1285 kg/day	Incinerator	2 No's 250 Kg/Hr & 120 kg/Hr
				Deep burial	
				Any other	

- (a) Total no. of transportation vehicles used for collection of Bio-Medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities : 7 no's
- (b) List of health care facility not having membership with the Common Bio-Medical Waste Treatment Facility with and neither having captive treatment facilities:
- (c) Number trainings organized by the Common Bio-Medical Waste Treatment Facility Operators: 12
- (d) Number of accidents reported by Common Bio-Medical Waste Treatment Facilities: NIL



Part-3: Information on Health care Facilities having captive treatment facilities (for the previous calendar year-2017)

Sl. No	Name and address of the Health care Facility	Quantity of Bio-Medical waste Generation (in kg/day)					Total Bio-Medical waste generated (in kg/day)	Total installed treatment capacity (in kg/day)				Total Bio-Medical waste treated and disposed by Health care facilities (in kg/day)	
		Yellow	Red	Blue	White	Total Bio-Medical waste generated (in kg/day)		Incinerator	Autoclave	Shredder	Any other	Incinerator	Autoclave
	Ramky Energy & Environment Ltd, Plot No. 47/B, Karnad Industrial Area, KIADB, Mulki, Mangalore - 574 154	785 kg/day	298 kg/day	152 kg/day	50 kg/day	1285 kg/day	250 kg/hr & 120 kg/hr	430 ltrs/one cycle	120 kg/hr each 2 no's	NA	Incinerator	327 kg/day	785 kg/day
											Autoclave	----	
											Deep burial	----	
											Any other	----	
											Total	1285 kg/day	



Sl. No	Name and address of the Common Bio-Medical Waste Treatment Facility with contact person name and telephone number	GPS Coordinates	Coverage area in KMS	Number of cities/areas covered by common Biomedical waste treatment facilities	Total no. of Health care facilities being covered	Total no. of beds covered	Total Quantity of Bio-medical waste collected from member Health care facilities (in kg/day)	Capacity of Treatment equipments installed by Common Bio-Medical Waste Treatment Facilities	Total installed capacity kg/day	Total Bio-medical waste treated (in kg/day)	Method of Disposal of treated waste Incineration/Ash/sharps/plastic
	Ramky Energy & Environment Ltd. Plot No. 47/B, Karnad Industrial Area, KIADB, Mulki, Mangalore - 574 154 T. K. Sridhar 7760714743	Installed 13.0711159 74.797935	140 kmts 13.0711159 74.797935	Udupi dist.	220	2208	1285 kg/day	Equipment Incinerator 2 250 kg/hr & 120 kg/hr Autoclave 1 430 ltrs	785 kg/day	327	Incineration ash Quantity Disposed by: Karnataka Waste Management Project 31kg/day Sharps

