GreenOT
Certified Green Operation Theatre
CERTIFIED BY BUREAU VERITAS

MEDICA Superspecialty Hospital
caring for life
KOLKATA

CERTIFICATION NO : H-2013-016
AN NABH ACCREDITED HOSPIT

Waste Management Cell
RECEIVED
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26 MAR 2019
W. B. Pollution Control Board
Bidhan Nagar, Kolkata-700 098

12th March, 2019

To
The Chief Engineer
Waste Management Cell
West Bengal Pollution Control Board
Paribesh Bhawan,
Bldg. No. 10A, Block-LA, Sector-III, Bidhannagar
Kolkata – 700 106

Subject : **Annual Report for the period January'18 to December'18**

Dear Sir
Enclosed please find the Annual Report and the related documents for the period January'18 to December'18 of Medica Superspecialty Hospital, 127 Mukundapur, E.M Bypass, Kolkata – 700 099.

Thanking you

Yours Sincerely

Medica Superspecialty Hospital ★ Kolkata

Komal Dutta Dashora
Group Head – Compliances
Mobile : 9831256896

Encl..as stated above

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	:	
	(i) Name of the authorised person (occupier or operator of facility)	:	Komal Dutta Dashora
	(ii) Name of HCF or CBMWTF	:	
	(iii) Address for Correspondence	:	Medica Superspecialty Hospital
	(iv) Address of Facility		127, Mukundapur, EM Bypass Kol-99
	(v)Tel. No, Fax. No	:	033-66520000
	(vi) E-mail ID	:	www.medicahospital.in
	(vii) URL of Website		contactus@medicahospitals.in
	(viii) GPS coordinates of HCF or CBMWTF		
	(ix) Ownership of HCF or CBMWTF	:	(State Government or Private or Semi Govt. or any other)
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	:	Authorisation No.: WB-B-1089/10.B.11 ..... 1/10/2018 ...valid up to 30/9/2019
	(xi). Status of Consents under Water Act and Air Act	:	Valid up to:
2.	Type of Health Care Facility	:	
	(i) Bedded Hospital	:	No. of Beds: 109
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	NA
	(iii) License number and its date of expiry		Already applied ★
3.	Details of CBMWTF	:	
	(i) Number healthcare facilities covered by CBMWTF	:	
	(ii) No of beds covered by CBMWTF	:	
	(iii) Installed treatment and disposal capacity of CBMWTF:	:	_____ Kg per day

★ 2(iii)(a)-Grant of Authorisation : No: 09/2S(BM)-2594/2009 upto 31/12/2023
(b)-Consent to Operate : No: 10/2S/CON(BM)-2595/2009 upto 31/12/2023
(c)-Consent to Establish (NOC): 18/2S/CFE(BM)-2127/2007

	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	_____ Kg/day
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category : 9125.995 Kg Per Month Red Category : 7927.848 kg Per Month White: 1020.795 Kg Per month Blue Category : 1555.958 kg Per Month General Solid waste: 6387 kg Per Month

5	Details of the Storage, treatment, transportation, processing and Disposal Facility						
	(i) Details of the on-site storage facility	:	Size :				
			Capacity :				
			Provision of on-site storage any other provision)	: (cold storage or			
	(ii) Details of the treatment or disposal facilities	:	Type of treatment equipment	No of units	Capacity Kg/day	Quantity treatedor disposed in kg per annum	
			Incinerators	Nil			
			Plasma Pyrolysis	Nil			
			Autoclaves	Nil			
			Microwave	Nil			
			Hydroclave	Nil			
			Shredder				
			Needle tip cutter or destroyer	(Hub Cutter)			
			Sharps encapsulation or concrete pit	250 per month Nil			
			Deep burial pits:	Nil			
			Chemical disinfection:				
			Any other treatment equipment:	Sodium Hypochlorite			
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	:	Red Category (like plastic, glass etc.) Nil				
	(iv) No of vehicles used for collection and transportation of biomedical waste	:	(By Medcare - Authoried Agency by WBPCB				
	(v) Details of incineration ash and ETP sludge generated and disposed			Quantity generated	Where disposed		

	during the treatment of wastes in Kg per annum		Incineration Ash ETP Sludge } Not Applicable
	(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	:	Medicare
	(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		No (But this Subject gets covered under Hospital infection Committee)
7	Details trainings conducted on BMW		
	(i) Number of trainings conducted on BMW Management.		4 class per Month
	(ii) number of personnel trained		1668
	(iii) number of personnel trained at the time of induction		All New joines trained at the time induction
	(iv) number of personnel not undergone any training so far		Nil
	(v) whether standard manual for training is available?		Yes
	(vi) any other information)		Nil
8	Details of the accident occurred during the year		Nil
	(i) Number of Accidents occurred		Nil
	(ii) Number of the persons affected		Nil
	(iii) Remedial Action taken (Please attach details if any)		NA
	(iv) Any Fatality occurred, details.		NA
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		Annual monitoring by third party (Report enclosed) Annexure -1
10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		STP (Report enclosed) Annexure -2
11	Is the disinfection method or sterilization meeting the log 4		

	standards? How many times you have not met the standards in a year?		NA
12.	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator)

Certified that the above report is for the period from

January 2018 to December 2018

Name and Signature of the Head of the Institution

Medica Superspecialty Hospital Kolkata

Date:
Place

Medica Superspecialty Hospital
127, Mukundapur, E.M.Bypass, Kolkata

ANNEXURE II - a.

N.D. INTERNATIONAL

GOVERNMENT REGISTERED

An ISO 9001 : 2015 Company | Certificate : 18DQCM02

TEST REPORT

Certificate No.: E(D)-(NN)/17-18/5217

Date: 29.03.2018

SAMPLE DRAWN BY US :

Name of Customer	: M/S. Medica Superspeciality Hospital
Address	: 127, Mukundapur, E.M. By Pass, Kolkata-700 099
Description of Sample	: Effluent.
Collection Source	: STP Outlet
Sample Drawn on	: 20.03.2018
Sample Received on	: 20.03.2018
Analysis Completed on	: 28.03.2018
Method of Sampling	: IS : 3025 (Part - 1) 1987 (Reaffirmed 2009)
Mode of Sampling	: Grab

A. PHYSICAL TEST FINDINGS:

Sl. No.	Test parameters	Test Method	Unit	Result
1	Temperature	APHA 22nd Edn, 2550-B	°C	27

B. CHEMICAL TEST FINDINGS:

Sl No.	Test parameters	Test Method	Unit	Result	Limit As per Environmental Protection Act. (MOE & F) for Effluent discharge for inland surface water
1	pH at 25°C	APHA 22nd Edn, 4500 H^+ B	---	7.0	5.5 - 9.0
2	Total Suspended Solids	APHA 22nd Edn, 2540 D	mg/L	56	100 mg/L (max)
3	Oil & Grease	APHA 22nd Edn, 5520 B	mg/L	8.9	10 mg/L (max)
4	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025(Part 44) :1993(RA2003)	mg/L	48	30 mg/L (max)
5	Chemical Oxygen Demand	APHA 22nd Edn, 5220 B	mg/L	132	250 mg/L (max)

Remarks : Satisfactory for the above tested parameters.

...End of Test Report...

For N. D. International
Bidhan Ch. Biswas
Sr. Chemist
Chemical Discipline
Authorized Signatory

1. The test report shall not be reproduced,except in full,without written approval of the company
2. Results relate only to the parameters tested.
3. The remaining sample after test will be retained for 15 days from the date of issue of certificate

ANNEXURE II b

N.D. INTERNATIONAL

GOVERNMENT REGISTERED

An ISO 9001 : 2015 Company | Certificate : 18DQCM02

TEST REPORT

Certificate No.: E(D)-(NN)/18-19/660 Date: 05.05.2018

SAMPLE DRAWN BY US :

Name of Customer	: M/s. Medica Superspeciality Hospital
Address	: 127, Mukundapur, E.M. By Pass, Kolkata-700 099
Description of Sample	: Effluent.
Collection Source	: STP Inlet
Sample Drawn on	: 27.04.2018
Sample Received on	: 27.04.2018
Analysis Completed on	: 05.05.2018
Method of Sampling	: IS : 3025 (Part - 1) 1987 (Reaffirmed 2009)
Mode of Sampling	: Grab

A. PHYSICAL TEST FINDINGS:

Sl No.	Test parameters	Test Method	Unit	Result
1	Temperature	APHA 22nd Edn, 2550-B	°C	27

B. CHEMICAL TEST FINDINGS:

Sl No.	Test parameters	Test Method	Unit	Result
1	pH at 25°C	APHA 22nd Edn, 4500 H^+ B	---	7.7
2	Total Suspended Solids	APHA 22nd Edn, 2540 D	mg/L	16
3	Oil & Grease	APHA 22nd Edn, 5520 B	mg/L	2.9
4	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025(Part 44) :1993(RA2003)	mg/L	15
5	Chemical Oxygen Demand	APHA 22nd Edn, 5220 B	mg/L	48

...End of Test Report...

For N.
Chemical
Authorised

1. The test report shall not be reproduced,except in full,without written approval of the company.
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SKN-II

ANNEXURE II (C).

N.D. INTERNATIONAL

GOVERNMENT REGISTERED

An ISO 9001 : 2015 Company Certificate : 18DQCM02

TEST REPORT

Certificate No.: E(D)-(NN)/18-19/2614 Date: 30.08.2018

SAMPLE DRAWN BY US : Page 1 of 1

Name of Customer	: M/s. Medica Superspeciality Hospital
Address	: 127, Mukundapur, E.M. By Pass, Kolkata-700 099
Description of Sample	: Effluent Water
Collection Source	: STP Inlet
Sample Drawn on	: 23.08.2018
Sample Received on	: 23.08.2018
Analysis Completed on	: 30.08.2018
Method of Sampling	: IS : 3025 (Part - 1) 1987 (Reaffirmed 2009)
Mode of Sampling	: Grab

A. PHYSICAL TEST FINDINGS:

Sl. No.	Test parameters	Test Method	Unit	Result
1	Temperature	APHA 22nd Edn, 2550-B	°C	29

B. CHEMICAL TEST FINDINGS:

Sl No.	Test parameters	Test Method	Unit	Result
1	pH at 25°C	APHA 22nd Edn, 4500 H^+ B	---	7.7
2	Total Suspended Solids	APHA 22nd Edn, 2540 D	mg/L	32
3	Oil & Grease	APHA 22nd Edn, 5520 B	mg/L	5.3
4	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025(Part 44) :1993(RA2003)	mg/L	28
5	Chemical Oxygen Demand	APHA 22nd Edn, 5220 B	mg/L	75

...End of Test Report...

For N. D. International
Bidhan Ch. Biswas
Sr. Chemist,
Chemical Discipline
Authorized Signatory

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2. Results relate only to the parameters tested.
3. The remaining sample after test will be retained for 15 days from the date of issue of certificate

SKN-II

ANNEXURE - II

N.D. INTERNATIONAL

GOVERNMENT REGISTERED

An ISO 9001 : 2015 Company Certificate : 18DQCM02

TEST REPORT

Certificate No.: E(D)-(NN)/18-19/2615 Date: 30.08.2018

SAMPLE DRAWN BY US :

Name of Customer	: **M/s. Medica Superspeciality Hospital**
Address	: 127, Mukundapur, E.M. By Pass, Kolkata-700 099
Description of Sample	: Effluent Water
Collection Source	: STP Outlet
Sample Drawn on	: 23.08.2018
Sample Received on	: 23.08.2018
Analysis Completed on	: 30.08.2018
Method of Sampling	: IS : 3025 (Part - 1) 1987 (Reaffirmed 2009)
Mode of Sampling	: Grab

A. PHYSICAL TEST FINDINGS:

Sl. No.	Test parameters	Test Method	Unit	Result
1	Temperature	APHA 22nd Edn, 2550-B	°C	29

B. CHEMICAL TEST FINDINGS:

Sl No.	Test parameters	Test Method	Unit	Result	Limit As per Environmental Protection Act. (MOE & F) for Effluent discharge into inland surface water
1	pH at 25°C	APHA 22nd Edn, 4500 H^+ B	---	7.6	5.5 - 9.0
2	Total Suspended Solids	APHA 22nd Edn, 2540 D	mg/L	12	100 mg/L (max)
3	Oil & Grease	APHA 22nd Edn, 5520 B	mg/L	3.5	10 mg/L (max)
4	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025(Part 44) :1993(RA2003)	mg/L	12	30 mg/L (max)
5	Chemical Oxygen Demand	APHA 22nd Edn, 5220 B	mg/L	37	250 mg/L (max)

Remarks : Satisfactory for the above tested parameters.

...End of Test Report...

For N. D. International
Bidhan Ch. Biswas
Sr. Chemist
Chemical Discipline
Authorized Signatory

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SKN-II

ANNEXURE-I(a)

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
ESTABLISHED IN 1900
TAHER MANSION, 1ST FLOOR
9, BENTINCK STREET, KOLKATA - 700 001
Ph. : 2248-3661/2698/7803, 2262-4153/4154, Fax : 33 2248-0447
E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

NABL ACCREDITED LABORATORY
Certificate No. T-0701

TEST REPORT

No. AP-FG/18-19/185 | Date: June 29, 2018 |

Issued to	: M/S. MEDICA HOSPITALS PVT. LTD.	
Address	: 127, Mukundapur, E.M. Bypass, Kolkata- 700099.	
Your W.O. No.	: 19/MD01/WOHD/100090, dtd. 21.06.2018	
Sample Description	: Stack Gas	
Date & time of sampling	: 25.06.2018 at 03:45 P.M.	Test Completed on : 26.06.2018

A. General information about stack :

1. Stack connected to : Diesel Generator - 1
2. Emission due to : Burning of H.S.D
3. Material of construction of stack : M.S.
4. Shape of stack : Circular.
5. Whether stack is provided with permanent platform & ladder : Sample was taken from roof top.
6. Generator capacity : 500 KVA

B. Physical characteristics of stack :

1. Height of the stack (a) from ground level : 7.5 M (Approx) (b) from roof level : ---
2. Diameter of the stack (a) at bottom : --- (b) at top : ---
3. Diameter of the stack at sampling point : 0.25 M (Approx)
4. No. of Traverse point : 4 Nos.
5. Height of the sampling point from GL : 5.0 M (Approx)

C. Analysis / Characteristic of stack :

1. Fuel used : H.S.D 2. Fuel consumption : 76 Lt./hr.

D. Results of sampling & analysis of gaseous emission : Barometric pressure : 752 mmHg

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per Environment (Protection) Third Amendment Rules 2013, for 75 kw- ≤ 800 kw
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	119	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	6.45	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM^3/hr	823	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm^3	164.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm^3	148.0	
			gm/kw-hr	0.30	4.0
6.	Carbon monoxide	By NDIR	mg/Nm^3	147	
			gm/kw-hr	0.30	3.5
7.	Carbon dioxide	APHA - ORSAT	% v/v	6.8	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm^3	28	
			gm/kw-hr	0.06	0.2

E. Pollution control device

Details of pollution control devices attached with the stack : Nil.

(J. MUKHERJEE)
Quality Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

BB

ANNEXURE - I(6).

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
ESTABLISHED IN 1900
TAHER MANSION, 1ST FLOOR
9, BENTINCK STREET, KOLKATA - 700 001
Ph. : 2248-3661/2698/7803, 2262-4153/4154, Fax : 33 2248-0447
E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

NABL ACCREDITE LABORATORY
Certificate No. T-07(

TEST REPORT

No. AP-FG/18-19/186 Date: June 29, 2018

Issued to	: M/S. MEDICA HOSPITALS PVT. LTD.
Address	: 127, Mukundapur, E.M. Bypass, Kolkata- 700099.
Your W.O. No.	: 19/MD01/WOHD/100090, dtd. 21.06.2018
Sample Description	: Stack Gas
Date & time of sampling	: 25.06.2018 at 03:00 P.M.

Test Completed on : 26.06.2018

A. General information about stack :

1. Stack connected to : Diesel Generator - 2
2. Emission due to : Burning of H.S.D
3. Material of construction of stack : M.S.
4. Shape of stack : Circular.
5. Whether stack is provided with permanent platform & ladder : Sample was taken from roof top.
6. Generator capacity : 500 KVA

B. Physical characteristics of stack :

1. Height of the stack (a) from ground level : 7.5 M (Approx) (b) from roof level : ---
2. Diameter of the stack (a) at bottom : --- (b) at top : ---
3. Diameter of the stack at sampling point : 0.25 M (Approx)
4. No. of Traverse point : 4 Nos.
5. Height of the sampling point from GL : 5.0 M (Approx)

C. Analysis / Characteristic of stack :

1. Fuel used : H.S.D 2. Fuel consumption : 76 Lt./hr.

D. Results of sampling & analysis of gaseous emission : Barometric pressure : 752 mmHg

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per Environment (Protection) Third Amendment Rules 2013, for 75 kw- ≤ 800 kw
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	111	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	8.27	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM^3/hr	1079	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm^3	177.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm^3	145.0	
6.	Carbon monoxide	By NDIR	gm/kw-hr	0.39	4.0
			mg/Nm^3	138	
7.	Carbon dioxide	APHA - ORSAT	gm/kw-hr	0.37	3.5
8.	Particulate Matters	IS 11255 : Part 1 : 1985	% v/v	6.6	N.A
			mg/Nm^3	36	
			gm/kw-hr	0.10	0.2

E. Pollution control device

Details of pollution control devices attached with the stack : Nil.

(J. MUKHERJEE)
Quality Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.