01C

SMS

Dated: 22nd May 2021

Ref: SMS-WGPL/DPCC/ND/BMW/2021/ 05

To,
Sr. Environmental Engineer
Delhi Pollution Control Committee
DPCC 4th floor ISBT
Building, Kashmiri Gate
Delhi-110006

07/06/2021
(ENQUIRY COUNTER)
DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT
GOVT. OF NCT OF DELHI
4TH FLOOR, ISBT BUILDING,
KASHMERE GATE, DELHI-110006

Subject: Annual report for common bio-medical waste treatment for the year 2020

Respected Sir,

Please find enclosed annual report for the year 2020 of bio-medical waste collection, transported, treated & disposal with FORM-IV duly filled as desired by you for our CBMWTF.

We assure you that we shall comply with all direction and regulation to operate the Bio-Medical Waste Management Rule, Guideline and as advised by DPCC authorities from time to time.

We shall be grateful to submit future information.

Thanking You

Yours Truly

For: **SMS WATER GRACE BMW PVT. LTD**

SMS Water Grace BMW Pvt. Ltd.

Authorized Signatory

Encloses: Annexure-I
Annexure-II
Annexure-III
Annual waste collection sheet

D.J.B., S.T.P., Nilothi, New Delhi - 110041, Mob. : 8744076032, 8744076042
Website : http://www.smsdelhibmw.co.in

Regd. Nagpur Office : 267, Ganesh Phadnavis Bhavan, Near Triangular Park, Dharampeth, Nagpur, Maharashtra-440010 (India)
Phone No. : +91-712-7125000 Web : www.smsl.co.in
Toll Free No. : 18002740055

SMS
WATER GRACE BMW PVT. LTD.
CIN : U52100MH2007PTC167615

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) of Common Bio-medical Waste Treatment Facility (CBWTF)]

Sl. No.	Particulars		
1.	Particulars of the Occupier	:	**SMS WATER GRACE BMW PV LTD**
(i)	Name of the authorized person (occupier or operator of facility)	:	**PRABAL PRATAP SINGH JADON**
(ii)	Name of HCF or CBMWTF	:	**SMS WATER GRACE BMW PVT LTD**
(iii)	Address fir Correspondence	:	DELHI JAL BOARD, SEWAGE TREATMENT PLANT, NILOTHI DELHI-41
(iv)	Address of Facility	:	DELHI JAL BOARD, SEWAGE TREATMENT PLANT, NILOTHI, DELHI-41
(v)	Tel. No. Fax No.	:	8744076042
(vi)	E-mail ID	:	prabal.singh@smsl.co.in
(vii)	URL of Website	:	www.smsdelhibmw.co.in
(viii)	GPS Co-ordinates of CBMWTF	:	28.65 N & 77.04 E
(ix)	Ownership of CBMWTF	:	Private
(x)	Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	:	Valid up to 27/Oct/2024
(xi)	Status of Consents under Water Act and Air Act	:	Valid up to 02/May/2024
2.	Type of Health Care Facility	:	CBWTFs
(i)	Bedded Hospital	:	CBWTFs
(ii)	Non-bedded Hospital (Clinic or Blood Bank of Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	CBWTFs
(iii)	License number and its date of expiry	:	

3.	Details of CBMWTE	:	**SMS WATER GRACE BMW P LTD.**
(i)	Number healthcare facilities covered by CBMWTE	:	5917
(ii)	No. of beds covered by CBMWTE	:	32918
(iii)	Installed treatment and disposal capacity of CBMWTE	:	28.8 Ton per day
(iv)	Quantity of biomedical waste treated or disposed by CBMWTE		11435 Kg per day
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category:4895 Kg/Day Red Category: 5030 Kg/Day White Category: 633 Kg/Day Blue Category: 877 Kg/Day 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: 900sq.ft. Capacity:25 Ton Provision of on-site storage: other provision
	Disposal facilities		

Type of treatment equipment	No. of units	Capacity Kg/day	Quanti treated c dispose in kg per annu
Incinerators	2	250kg/Hour	1786 To
Autoclaves	2	700kg/Hour	1835 To
Shredder	3	550Kg/Hour	1652 To
Chemical disinfection:	1	400Kg/Hour	320 Ton

(iii)	Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum	:	1842 TONNES
(iv)	No. of vehicles used for collection and transportation of biomedical waste		34 (Close Body Vehicles as per BMW rule 2016)

(v)	Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum		Quantity generated / Where disposed Incineration Ash: 266 Tonnes / Sanitary Land ETP Sludge: 7.3 Tonnes / Incineration
(vi)	Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of		SMS WATER GRACE BMW PVT. LTD DELHI-41
(vii)	List of member HCF not handed over bio-medical waste		Annexure-I
6.	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period		N.A.
7.	Details trainings conducted on BMW		
(i)	Number of trainings conducted on BMW Management		Annexure-II
(ii)	Number of personnel trained		110 Approx
(iii)	Number of personnel trained at the time of induction		
(iv)	Number of personnel not undergone any training so far		Nil
(v)	Whether standard manual for training is available ?		PPT based
(vi)	Any other information		
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)		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?		Yes (Quarterly monitored through third party) Annexure-III
	Details of Continuous online emission monitoring systems		Installed (Vasthi Engg. Pvt. Ltd.)

	installed		
10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		Nil
11.	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?		Nil
12.	Any other relevant information	:	(Air Pollution Control Devices attached v the Incinerator)

Certified that the above report is for the period from

.....January - 2020 ..... to ..... December - 2020 .....

.....

.....

.....

Name & Signature of the Head of the Institution

Date: 27/May/2021

Place: New Delhi-41

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 of been informed immediately: N.A.
5. The type of waste involved in accident : N.A.
6. Assessment of the effects of the accidents on human health and the environment : Nil
7. Emergency measures taken : N.A.
8. Steps taken to alleviate the effects of accidents : Nil
9. Steps taken to prevent the recurrence of such an accident : Nil
10. Does you facility has Emergency Control policy? If yes, give details : Yes

Date : 27/09/2021

Place : New Delhi-41

Signature : .....

Designation : Br. Manager

SMS Water Grace BMW Pvt. Ltd.
DJB, S.T.P., Nilothi Village, New Delhi-110041
+91-8744076042

TOTAL WASTE DETAIL (REGULAR) FOR THE MONTH OF JAN 2020 TO DEC 2020					
REGULAR WASTE DETAILS					
Month	Yellow Wt in KG	RED Wt in KG	BLUE Wt in KG	White Wt in KG	Total Wt in Kg
January	194444.54	205106.06	37364.84	9589.11	446504.54
February	185357.00	199793.36	39632.73	9768.21	434551.29
March	169784.95	173125.36	32466.47	9621.72	384998.49
April	88434.77	86740.21	13176.49	2099.26	190450.73
May	116548.00	97110.00	15800.00	2780.00	232238.00
June	123755.00	96983.00	17623.00	3657.00	242018.00
July	156003.00	104326.00	18601.00	4322.00	283252.00
August	153811.00	119895.00	17780.00	3995.00	295481.00
September	169296.00	129704.00	34791.00	4472.00	338263.00
October	180028.00	140087.00	30330.00	3911.00	354356.00
November	164320.00	143427.00	26220.00	3424.00	337391.00
December	159215.00	151996.00	26205.00	3765.00	341181.00
	1860997.26	1648292.98	309990.53	61404.29	3880685.06

SMS Water Grace BMW Pvt. Ltd.
DJB, S.T.P., Nilothi Village, New Delhi-110041
+91-8744076042

TOTAL WASTE DETAIL (COVID-19) FOR THE MONTH OF Feb 2020 TO 31 st Dec 2020					
COVID-19 Waste Details					
Month	Yellow Wt in KG	RED Wt in KG	BLUE Wt in KG	White Wt in KG	Total Wt in Kg
Feb	1795.00	0.00	0.00	0.00	1795.00
March	12119.93	732.52	78.00	3.50	12933.95
April	90616.19	14507.81	3727.16	80.25	108931.40
May	142425.35	14815.26	1243.02	120.41	158604.04
June	174894.00	34860.00	2049.50	316.00	212119.50
July	152486.64	29265.29	1872.09	423.83	184047.85
August	123212.58	27805.76	2199.23	461.65	153679.22
September	100508.82	43294.31	3044.22	649.17	147496.52
October	77522.97	54793.10	4492.78	1061.85	137870.70
November	77045.83	59960.11	6055.07	1422.13	144483.14
December	69135.10	54689.75	5759.04	1464.66	131048.54
	1021762.40	334723.91	30520.11	6003.44	1393009.86

SMS Water Grace BMW Pvt. Ltd.
DJB, S.T.P., Nilothi Village, New Delhi-110041
+91-8744076042

Total Bio Medical waste (Covid-19+ Non covid) Yrs 2020

Month	Yellow Wt in KG	RED Wt in KG	BLUE Wt in KG	White Wt in KG	Total Wt in Kg
Jan-20	194444.54	205106.06	37364.84	9589.11	446504.54
Feb-20	187152.00	199793.36	39632.73	9768.21	436346.29
Mar-20	181904.88	173857.88	32544.47	9625.22	397932.44
Apr-20	179050.95	101248.02	16903.65	2179.51	299382.13
May-20	258973.35	111925.26	17043.02	2900.41	390842.04
Jun-20	298649.00	131843.00	19672.50	3973.00	454137.50
Jul-20	308489.64	133591.29	20473.09	4745.83	467299.85
Aug-20	277023.58	147700.76	19979.23	4456.65	449160.22
Sep-20	269804.82	172998.31	37835.22	5121.17	485759.52
Oct-20	257550.97	194880.10	34822.78	4972.85	492226.70
Nov-20	241365.83	203387.11	32275.07	4846.13	481874.14
Dec-20	228350.10	206685.75	31964.04	5229.66	472229.54
	2882759.66	1983016.89	340510.64	67407.73	5273694.91

ITL LABS PVT. LTD.™

Govt. Approved Test House

B-283-84, Mangolpuri, Industrial Area, Phase-I, Delhi - 110 083

PH. : 27915654, 27915608, 65368717, Fax : 27923339

Toll Free No. 1800-532-0999

QUALITY ASSURED COMPANY ISO 9001

JAS-ANZ

TEST REPORT

202103090045

Report Number:D2021030900450

Sender / Party	SMS WATER GRACE BMW PVT.LTD. D.J.B,S.T.P.,NILOTHI, NEW DELHI-110041, 110041 NEW DELHI		
Sample Name	**SPORE SAMPLE**		
Letter Reference No.	N.S	**Date**	09/03/2021
Mfgd. By	N.S.		
Supplied by	N.S		
Batch No.	N.S	**Batch Size**	N.S.
Mfgd. Date	N.S	**Sample Qty**	1 Pcs
Exp. Date	N.S	**Lic.No.**	N.S
Sample Packing	Polythene pack	**Protocol**	MANUFACTURE SPECIFICATION

Description : Plastic bottle, Gloves, syringe.

S. No.	Parameters	Test Result	Requirements
1.	ORGANISMUSED	Geobacillus stearothermophilus	
2.	AUTOCLAVE DETAILS	121°c for 15 minutes	
3.	INCUBATION DETAILS	56°c for 48 hours	
4.	OBSERVATIONS	No growth observed	

***** End of Report *****

Lab Incharge

19/03/2021

JAS-ANZ
QUALITY ASSURED COMPANY ISO 9001

ITL LABS PVT. LTD.™

Govt. Approved Test House
B-283-84, Mangolpuri, Industrial Area, Phase-I, Delhi - 110 083
PH. : 27915654, 27915608, 65368717, Fax : 27923339
Toll Free No. 1800-532-0999

TEST REPORT

202103160067

Report Number:D2021031600670

Sender / Party	SMS WATER GRACE BMW PVT.LTD. D.J.B,S.T.P.,NILOTHI, NEW DELHI-110041, 110041 NEW DELHI		
Sample Name	**SPORE SAMPLE**		
Letter Reference No.	N.S	**Date**	16/03/2021
Mfgd. By	N.S.		
Supplied by	N.S		
Batch No.	N.S	**Batch Size**	N.S.
Mfgd. Date	N.S	**Sample Qty**	1 Pcs
Exp. Date	N.S	**Lic.No.**	N.S
Sample Packing	Polythene pack	**Protocol**	MANUFACTURE SPECIFICATION

Description : Plastic bottle, Gloves, syringe.

S. No.	Parameters	Test Result	Requirements
1.	ORGANISMUSED	Geobacillus stearothermophilus	
2.	AUTOCLAVE DETAILS	121°c for 15 minutes	
3.	INCUBATION DETAILS	56°c for 48 hours	
4.	OBSERVATIONS	No growth observed	

***** End of Report *****

Lab Incharge

19/03/2021

ITL LABS PVT. LTD.™

Govt. Approved Test House

B-283-84, Mangolpuri, Industrial Area, Phase-I, Delhi - 110 083
Ph. : 011-27915654, 27915608 Cust. Care No. 9891317619
E-mail : itllabs@gmail.com
Approval No. : NW9(14)/LAB

TEST REPORT

D202103230036

Report Number:D2021032300360

Sender / Party	SMS WATER GRACE BMW PVT.LTD. D.J.B,S.T.P.,NILOTHI, NEW DELHI-110041, 110041 NEW DELHI		
Sample Name	**SPORE SAMPLE**		
Letter Reference No.	N.S	**Date**	23/03/2021
Mfgd. By	N.S.		
Supplied by	N.S		
Batch No.	N.S	**Batch Size**	N.S.
Mfgd. Date	N.S	**Sample Qty**	1 Pcs
Exp. Date	N.S	**Lic.No.**	N.S
Sample Packing	Polythene pack	**Protocol**	Manufacturer specification

Description : Gloves, syringe, plastic bottle.

S. No.	Parameters	Test Result	Requirements
1.	ORGANISMUSED	Geobacillus stearothermophilus	
2.	AUTOCLAVE DETAILS	121°c for 15 minutes	
3.	INCUBATION DETAILS	56°c for 48 hours	
4.	OBSERVATIONS	No growth observed	

***** End of Report *****

Lab Incharge

26/03/2021
Date of Completion

F/7. 8/04 JAS-ANZ

ITL LABS PVT. LTD.™

Govt. Approved Test House

B-283-84, Mangolpuri, Industrial Area, Phase-I, Delhi - 110 083
Ph. : 011-27915654, 27915608 Cust. Care No. 9891317619
E-mail : itllabs@gmail.com
Approval No. : NW9(14)/LAB

TEST REPORT

D202103300037

Report Number:D2021033000370

Sender / Party	SMS WATER GRACE BMW PVT.LTD. D.J.B,S.T.P.,NILOTHI, NEW DELHI-110041, 110041 NEW DELHI		
Sample Name	**SPORE SAMPLE**		
Letter Reference No.	N.S	**Date**	30/03/2021
Mfgd. By	N.S.		
Supplied by	N.S		
Batch No.	N.S	**Batch Size**	N.S.
Mfgd. Date	N.S	**Sample Qty**	1 Pcs
Exp. Date	N.S	**Lic.No.**	N.S
Sample Packing	Polythene pack	**Protocol**	Manufacturer specification

Description : Gloves, syringe, plastic bottle.

S. No.	Parameters	Test Result	Requirements
1.	ORGANISMUSED	Geobacillus stearothermophilus	
2.	AUTOCLAVE DETAILS	121°c for 15 minutes	
3.	INCUBATION DETAILS	56°c for 48 hours	
4.	OBSERVATIONS	No growth observed	

***** End of Report *****

02/04/2021

Lab Incharge

F/7. 8/04 JAS-ANZ

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

An Environment, Food, Fuel, Soil & Biological Analytical Laboratory

(An ISO 9001:2015, 14001:2015 and 45001-2018 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025:2017 (NABL) & UPPCB

Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 9001/14001/4500

TEST REPORT

TEST REPORT NO.: ETS/1630-2/01/2021 DATE OF REPORT: 28.01.2021

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	M/s, SMS WATER GRACE BMW PVT. LTD. D.J.B, S.T.P. NILOTHI, NEW DELHI-110041.
Date Of Sampling	:	23.01.2021
Analysis Start Date	:	25.01.2021
Analysis End Date	:	28.01.2021
Duration Of Sampling	:	30.0 MIN
Sample ID No.	:	1630-2
Sampling Done By	:	ETS STAFF
Sampling Method	:	ETS/STP/STACK-01
Stack Attached To	:	INCINERATOR STACK NO-01
Capacity Of Stack	:	250.0 KG
Quantity Of Fuel Used	:	.....
Type Of Fuel Used	:	ELECTRICITY
Stack Height Above Ground	:	30.0 MTR.
Stack Dia At The Top	:	410.0 MM
Material Of Construction	:	M.S.
Attached APCS	:	VENTURY SCRUBBER, WET SCRUBBER, DROPLET SEPARATOR, MIST ELIMADATOR, ACTIVATED CARBON FILTER,
Normal Operating Schedule	:	AS PER REQUIRMENTS
Ambient Temperature	:	15.0 ^{0}C
Flue Gas Temperature	:	105.0 ^{0}C
Velocity Of Flue Gases	:	7.1 MTR./SEC.

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM)	mg/Nm^3	32.0	50	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO_2)	mg/Nm^3	14.0	200	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO_2)	mg/Nm^3	41.5	400	IS-11255 (Part-7)
4	Oxygen,(O2)	%v/v	12.0	Not Specified	IS: 13270
5	Mercury,(Hg)	mg/Nm^3	< 0.05	0.05	ETS/STP/STACK-08
6	Acid Mist (HCL)	mg/Nm^3	7.1	50	Volumetric Method

*****End of Test Report*****

FOR ENVIRO-TECH SERVICES

CHECKED BY

For Enviro- Tech Services

Md Humraj

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

ETS-LAB

ENVIRO-TECH SERVICES

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Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 9001/14001/4500

TEST REPORT

TEST REPORT NO.: ETS/1630-3/01/2021

DATE OF REPORT: 28.01.2021

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	M/s, SMS WATER GRACE BMW PVT. LTD. D.J.B, S.T.P. NILOTHI, NEW DELHI-110041.
Date Of Sampling	:	23.01.2021
Analysis Start Date	:	25.01.2021
Analysis End Date	:	28.01.2021
Duration Of Sampling	:	30.0 MIN
Sample ID No.	:	1630-3
Sampling Done By	:	ETS STAFF
Sampling Method	:	ETS/STP/STACK-01
Stack Attached To	:	INCINERATOR STACK NO-02
Capacity Of Stack	:	250.0 KG
Quantity Of Fuel Used	:	.....
Type Of Fuel Used	:	ELECTRICITY
Stack Height Above Ground	:	30.0 MTR.
Stack Dia At The Top	:	410.0 MM
Material Of Construction	:	M.S.
Attached APCS	:	VENTURY SCRUBBER, WET SCRUBBER, DROPLET SEPARATOR, MIST ELIMADATOR, ACTIVATED CARBON FILTER,
Normal Operating Schedule	:	AS PER REQUIRMENTS
Ambient Temperature	:	15.0 ^{0}C
Flue Gas Temperature	:	110.0 ^{0}C
Velocity Of Flue Gases	:	7.4 MTR./SEC.

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM)	mg/Nm^3	36.0	50	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO_2)	mg/Nm^3	18.0	200	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO_2)	mg/Nm^3	45.1	400	IS-11255 (Part-7)
4	Oxygen,(O2)	%v/v	15.0	Not Specified	IS: 13270
5	Mercury,(Hg)	mg/Nm^3	< 0.05	0.05	ETS/STP/STACK-08
6	Acid Mist (HCL)	mg/Nm^3	7.7	50	Volumetric Method

*****End of Test Report*****

FOR ENVIRO-TECH SERVICES

CHECKED BY

For Enviro- Tech Services

Md Humraj
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

ETS-LAB

ENVIRO-TECH SERVICES

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 9001/14001/45001

TEST REPORT

TEST REPORT NO.: ETS/1630-7/01/2021

DATE OF REPORT: 28.01.2021

ASH SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, SMS WATER GRACE BMW PVT. LTD.
D.J.B, S.T.P. NILOTHI,
NEW DELHI-110041.

Date of Sampling : 23.01.2021
Analysis Start Date : 25.01.2021
Analysis End Date : 28.01.2021
Sample ID No : 1630-7
Sampling Done By : ETS STAFF
Sampling Description : INCINERATOR ASH
Sampling Method : BIS & APHA
Sample Quantity : 2.0 Kg.
Packing Condition : SEALED
Packed In : ZIP POLY BAG

S. No.	Test Parameter	Unit	Result	Test Method
1	Moisture content	%	1.5	ETS/STP/ASH
2	Organic Matter (OM)	%	2.6	ETS/STP/ASH
3	Total Nitrogen (N)	Mg/kg	0.40	ETS/STP/ASH
4	Sulphur (as S)	%	0.04	ETS/STP/ASH
5	Volatile Matters	%	1.4	ETS/STP/ASH
6	Sodium (Na)	Mg/kg	0.20	ETS/STP/ASH
7	Potassium (K)	Mg/kg	0.10	ETS/STP/ASH
8	Hydrogen (H)	%	0.65	ETS/STP/ASH
9	Carbon (C)	%	0.55	ETS/STP/ASH
10	Oxygen (O)	%	N.D	ETS/STP/ASH
11	Ash Content	%	25.1	ETS/STP/ASH

REMARK-N.D-Not Detectable.

*****End of Test Report*****

FOR ENVIRO-TECH SERVICES

CHECKED BY

For Enviro- Tech Services

AUTHORIZED SIGNATORY

Md Humraj
Quality Manager

Note:-

ecosteps laboratory

ECOSTEPS LABORATORY PRIVATE LIMITED
(Complete Test House For Testing of Environmental Samples)
NABL Accredited and MoEF&CC Approved Laboratory
ISO 9001 : 2015 & OHSAS 1800 Certified

TEST REPORT

Issued to

M/s SMS Water Grace BMW Pvt Ltd
D.J.B, STP, Nilothi
New Delhi-110041

Doc No. ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018

Lab Reference No. : 210125002 DN
Issue Date : 28/01/2021
Your Reference : Email

Sample Particulars: DG Noise Level testing was done at SMS Water Grace BMW Pvt. Ltd., D.J.B, STP at Nilothi, New Delhi-110041 on 23/01/2021..

Type of sample	: DG Noise	**Sample Registration Date**	: 25/01/2021
Sampling Date	: 23/01/2021	**Testing Starting Date**	: 23/01/2021
Sampling Done by	: Lab representative	**Testing Completion Date**	: 23/01/2021
Quantity received	: 01 Sample	**Tests Required**	: Mentioned below
Sample's Location	: Project Site	**Sampling Method**	: ELPL/III/SOP/37
Details of DG Set	: **Capacity**- 125 KVA		

Test Results

S.no.	Description	Unit	Result	Specification	Test Method
1.	Acoustic enclosure (Open Door) Sound level pressure	dB(A)	101.1	-	ELPL/III/SOP/37
2	Acoustic enclosure (Closed Door) Sound level pressure	dB(A)	73.7	75	ELPL/III/SOP/37
3	Insertion Loss	dB(A)	27.4	25	

******END OF REPORT*****

Note – Noise Limit for DG Sets (up to 1000 KVA) manufactured on or after 1st January 2005 shall be 75 dB (A) at 1 meter from the enclosure surface, and having insertion loss minimum 25 dB(A).

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

ecosteps laboratory

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ISO 9001 : 2015 & OHSAS 1800 Certified

TEST REPORT

Issued to

M/s SMS Water Grace BMW Pvt Ltd
D.J.B, STP, Nilothi
New Delhi-110041

Doc No. ELPL/IV/QF/20
Amend. No. & Amend. Date : 02 & 17.02.2018

Lab Reference No. : 210125001 E
Issue Date : 28/01/2021
Your Reference : Email
(Page1of 1)

Sample Particulars: DG Stack monitoring was done at SMS Water Grace BMW Pvt. Ltd., D.J.B, STP at Nilothi, New Delhi-110041 on 23/01/2021.

Type of sample	: DG Stack	**Sample Registration Date**	: 25/01/2021
Sampling Date	: 23/01/2021	**Analysis Starting Date**	: 25/01/2021
Sampling Done by	: Lab representative	**Analysis Completion Date**	: 28/01/2021
Quantity received	: 01 Sample	**Tests Required**	: Mentioned below
		Sampling Method	: ELPL/III/SOP/32

DG Capacity	: 100 KW (125 KVA)
Source of Emission	: Stack attached to DG Set
Type of fuel used	: HSD
Type of Stack	: Circular
Operating Schedule	: As per requirement
Diameter of Stack (m)	: 0.1
Height of Stack from Ground level (m)	: 8
Height of Stack from roof level (m)	:
Time of sampling (minutes)	: 37
Ambient Temperature (k)	: 294
Stack Temperature (k)	: 418
Average velocity of flue emission (m/s)	: 9.33
Isokinetic flow rate (l/m)	: 27.1
Flue gas flow rate (m^3/hr.)	: 263.7
Control Measures (if any)	: Nil
Remark (If any)	: Nil

S.no.	Test Parameters	Results	Units	Test Method	Emission Limits as per EPA Rules
1.	Particulate Matter(PM)	0.12	g/kw-hr	IS 11255(P-1)	≤ 0.2
2.	Oxides of Nitrogen(NOx)	1.48	g/kw-hr	IS 11255(P-7)	≤ 4.0
3.	Hydrocarbon(HC) as CH_4	0.24	g/kw-hr	IS 5182(P-17)	
4.	Carbon monoxide(CO)	0.72	g/kw-hr	IS 13270:1992	≤ 3.5

******END OF REPORT******

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purushottam Kumar Sharma)

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TEST REPORT

TEST REPORT NO.: ETS/1630-5/01/2021

DATE OF REPORT: 28.01.2021

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, SMS WATER GRACE BMW PVT. LTD.
D.J.B, S.T.P. NILOTHI,
NEW DELHI-110041.

Date of Sampling : 23.01.2021
Analysis Start Date : 25.01.2021
Analysis End Date : 28.01.2021
Sample ID No : 1630-5
Sampling Done By : ETS STAFF
Sampling Description : E.T.P
Sampling Location : E.T.P-INLET
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 2.0 Ltr.
Packing Condition : SEALED
Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Test Method
1	pH	...	6.15	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	144.0	APHA 2540-D
3	Oil & Grease, (O & G)	mg/L	18.0	APHA 5520-D
4	Biological Oxygen Demand($BOD_{3d}27^0C$)	mg/L	182.0	IS: 3025 (Part-44)
5	Chemical Oxygen Demand,(COD)	mg/L	525.0	APHA 5220-C

*****End of Test Report*****

FOR ENVIRO-TECH SERVICES

CHECKED BY

Note:-

For Enviro- Tech Services

Md Humraj
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/1630-4/01/2021

DATE OF REPORT: 28.01.2021

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, SMS WATER GRACE BMW PVT. LTD.
D.J.B, S.T.P. NILOTHI,
NEW DELHI-110041.

Date of Sampling : 23.01.2021
Analysis Start Date : 25.01.2021
Analysis End Date : 28.01.2021
Sample ID No : 1630-4
Sampling Done By : ETS STAFF
Sampling Description : E.T.P
Sampling Location : E.T.P-OUTLET
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 2.0 Ltr.
Packing Condition : SEALED
Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)		Test Method
				Inland Surface Water	Public Sewers	
1	pH	...	7.48	5.5 - 9.0	5.5 - 9.0	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	54.0	100	600	APHA 2540-D
3	Oil & Grease, (O & G)	mg/L	3.0	10	20	APHA 5520-D
4	Biological Oxygen Demand($BOD_{3d}27^0C$)	mg/L	22.0	30	350	IS: 3025 (Part-44)
5	Chemical Oxygen Demand,(COD)	mg/L	130.0	250	Not Specified	APHA 5220-C
6	Boi-Assay (90% Survival of Fish 96 Hrs.)	%	Pass	90% Survival of Fish (96 Hrs.	90% Survival of Fish (96 Hrs.	IS:6582 (Part-2)

*****End of Test Report*****

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Md Humraj
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/1630-8/01/2021

DATE OF REPORT: 28.01.2021

ANALYSIS REPORT

(VELIDATION TEST)

Name And Address of Customer	:	M/s, SMS WATER GRACE BMW PVT. LTD. D.J.B, S.T.P. NILOTHI, NEW DELHI-110041.
Date of Monitoring	:	23.01.2021
Monitoring Start Date	:	23.01.2021
Monitoring End Date	:	28.01.2021
Sample ID No	:	1630-8
Monitoring Done By	:	ETS STAFF
Sampling Location	:	AUTOCLAVE (SAMPLE QUANTITY:- 2 STRIP,1 CONTROL+ 1 TEST) **AUTOCLAVE NO-01 DETAILED :-** CAPACITY:- 300 KG/BATCH TEMPERATURE CAPACITY :- 121 ^{0}C MAKE: - NAT STEEL.

S. No.	Spore Strip*	Growth of Bacillus Stearothermophilus observed at 55 to 60 ^{0}C			Results
		Day-1	Day-2	Day-3	
1	Control Strip	(+ve)	(+ve)	(+ve)	Satisfactory
2	Test Strip -1	(-ve)	(-ve)	(-ve)	Satisfactory

Remark: - (+ve) Observed and (-ve) Not Observed, *mark not cover in NABL scope. The Autoclave working is satisfactory.

*****End of Test Report*****

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TEST REPORT

TEST REPORT NO.: ETS/1630-9/01/2021

DATE OF REPORT: 28.01.2021

ANALYSIS REPORT

(VELIDATION TEST)

Name And Address of Customer : M/s, SMS WATER GRACE BMW PVT. LTD.
D.J.B, S.T.P. NILOTHI,
NEW DELHI-110041.

Date of Monitoring : 23.01.2021
Monitoring Start Date : 23.01.2021
Monitoring End Date : 28.01.2021
Sample ID No : 1630-9
Monitoring Done By : ETS STAFF
Sampling Location : AUTOCLAVE (SAMPLE QUANTITY:- 2 STRIP,1 CONTROL+ 1 TEST)
AUTOCLAVE NO-02 DETAILED :-
CAPACITY:- 400 KG/BATCH
TEMPERATURE CAPACITY :- 121 ^{o}C
MAKE: - NAT STEEL.

S. No.	Spore Strip*	Growth of Bacillus Stearothermophilus observed at 55 to 60 ^{o}C			Results
		Day-1	Day-2	Day-3	
1	Control Strip	(+ve)	(+ve)	(+ve)	Satisfactory
2	Test Strip -1	(-ve)	(-ve)	(-ve)	Satisfactory

Remark: - (+ve) Observed and (-ve) Not Observed, *mark not cover in NABL scope. The Autoclave working is satisfactory.

*****End of Test Report*****

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TEST REPORT

TEST REPORT NO.: ETS/1630-6/01/2021

DATE OF REPORT: 28.01.2021

SLUDGE SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s, SMS WATER GRACE BMW PVT. LTD.
D.J.B, S.T.P. NILOTHI,
NEW DELHI-110041.

Date of Sampling : 23.01.2021
Analysis Start Date : 25.01.2021
Analysis End Date : 28.01.2021
Sample ID No : 1630-6
Sampling Done By : ETS STAFF
Sampling Description : SLUDGE.
Sampling Location : E.T.P -SLUDGE
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 1.0 Kg.
Packing Condition : SEALED
Packed In : POLY BAG

S. No.	Test Parameter	Unit	Result	Test Method
1	pH	...	7.65	IS 2720 (Part-26)
2	Phosphate (P)	mg/kg	18.1	ETS/STP/SLUDGE
3	Oil & Grease	mg/kg	9.0	ETS/STP/SLUDGE
4	Phenolic Compounds (as C_6H_5OH)	mg/kg	<0.01	ETS/STP/SLUDGE
5	Nitrate (as NO_3)	mg/kg	11.3	ETS/STP/SLUDGE
6	Arsenic,(As)	mg/kg	<0.01	APHA-3120 B
7	Cyanide,(CN)	mg/kg	<0.005	APHA 4500:(CN-)-D
8	Mercury,(Hg)	mg/kg	<0.01	APHA 3120-B
9	Zinc,(Zn)	mg/kg	<0.01	APHA 3125-B
10	Copper,(Cu)	mg/kg	<0.01	APHA-3120 B
11	Tin (as Sn)	mg/kg	<0.01	ETS/STP/SLUDGE
12	Manganese,(Mn)	mg/kg	<0.01	APHA-3120 B

*****End of Test Report****

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Md Humraj
Quality Manager

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Note:-