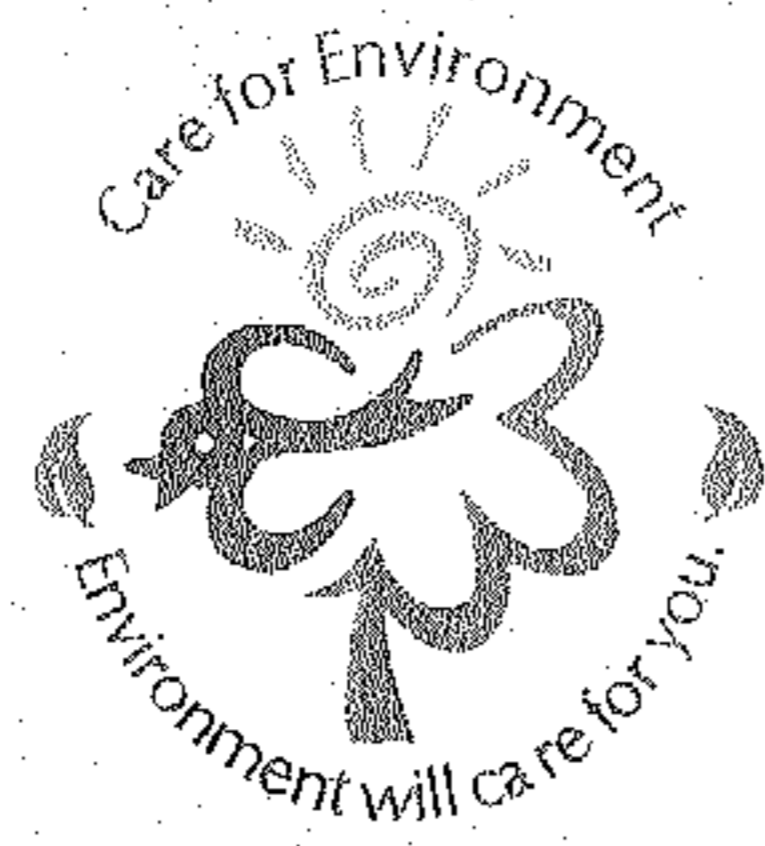


ANNEXURE 7 GROUND WATER ANALYSIS REPORT

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

TEST REPORT (WATER)

Test Report No : 678/01/2016-17

Date : 30/01/2017

Work Order No : ----

Job Card No : Gallant/16-17/042

Name of company : Gallantt Metal Limited

Survey No. 175/1, Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutchh.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 21/01/2017

Date & Time of Sampling : 21/01/2017

Lab ID : W/16-17/01/121

Date of Testing : 22nd to 25th January 2017

Sample Type : Water

Description of Sample Packing : Plastic Bottle

Type of Sampling : Grab

Quantity of Sample : 1.0 Ltr.

Description : Ground Water

Sample Collected by : Mukesh Rathod

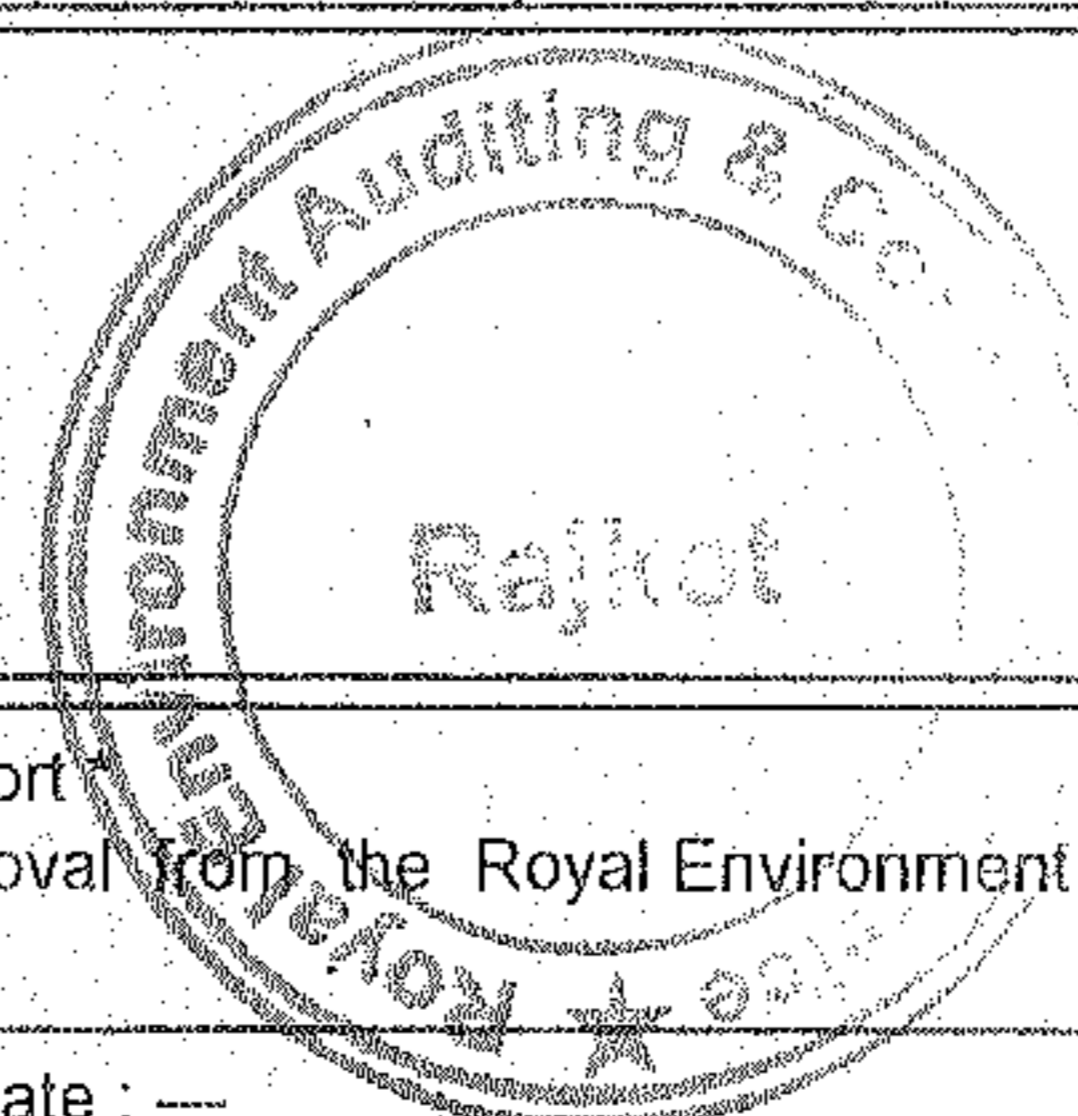
Sampling Method : IS 3025 : Part 1

Location of Sample : Ground Water - Nr. Solid Waste Storage Area

Sr. No.	Parameters	Unit	Acceptable Limits	Permissible Limits as per IS 10500-2012	Results	Test Method
01.	Color	Hazen Units	5	15	Colorless	IS 3025 : Part 44
02.	Odour	---	Agreeable	Agreeable	Odourless	IS 3025 : Part 5
03.	pH Value	---	6.5 - 8.5	No relaxation	7.3	IS 3025 : Part 11
04.	Turbidity	NTU	1	5	6	IS 3025 : Part 10
05.	Total Dissolved Solids	mg/l	500	2000	1622	IS 3025 : Part 16
06.	Total Suspended Solids	mg/l	---	---	15.5	IS 3025 : Part 17
07.	Total hardness (as CaCO ₃)	mg/l	200	600	730	IS 3025 : Part 21
08.	Calcium (as Ca)	mg/l	75	200	482	IS 3025 : Part 40
09.	Magnesium (as Mg)	mg/l	30	100	269	IS 3025 : Part 46
10.	Chloride (as Cl)	mg/l	250	1000	549	IS 3025 : Part 32
11.	Sulphate (as SO ₄)	mg/l	200	400	856	IS 3025 : Part 24
12.	Total alkalinity as (as CaCO ₃)	mg/l	200	600	744	IS 3025 : Part 23
13.	Nitrate (as NO ₃)	mg/l	45	No relaxation	121	IS 3025 : Part 34
14.	Fluoride (as F)	mg/l	1	1.5	0.08	IS 3025 : Part 60
15.	Iron (as Fe)	mg/l	0.3	No relaxation	0.34	IS 3025 : Part 53
16.	Mineral oil	mg/l	0.5	No relaxation	N.D.	IS 3025 : Part 39
17.	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	0.001	0.002	0.06	IS 3025 : Part 43
18.	Total arsenic (as As)	mg/l	0.01	0.05	Nil	IS 3025 : Part 37
19.	E. Coli	---	Absent	Absent	Absent	APHA
20.	Total Coliform Bacteria	---	Absent	Absent	Absent	APHA

**** This water can't be used as drinking water**

Authorized Signatory
Digvijay Jadeja



Analyst

* End of Report

1. This test report (FMT-TP-SRV-014) shall not be reproduced except in full, without written approval from the Royal Environment Auditing & Consultancy Service
2. The results relate only to the item tested.

Doc. No. FMT-TP-SRV-014/ Issue No. 01 / Issue Date : 23-03-14 / Ammend No.00 / Ammend Date : ---



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

TEST REPORT (WATER)

Test Report No : 638/10/2016-17

Date : 29/10/2016

Work Order No : ----

Job Card No : Gallant/16-17/042

Name of company : Gallantt Metal Limited

Survey No. 175/1, Near toll gate,
Village : Samakhlyali,
Taluka : Bhachau,
Kutchh.

Attention : Mr. Manoj Rastogi

Date of Sample Receipt : 11/10/2016

Date & Time of Sampling : 11/10/2016

Lab ID : W/16-17/10/059

Date of Testing : 12th to 16th October 2016

Sample Type : Water

Description of Sample Packing : Plastic Bottle

Type of Sampling : Grab

Quantity of Sample : 1.0 Ltr.

Description : Ground Water

Sample Collected by : Mukesh Rathod

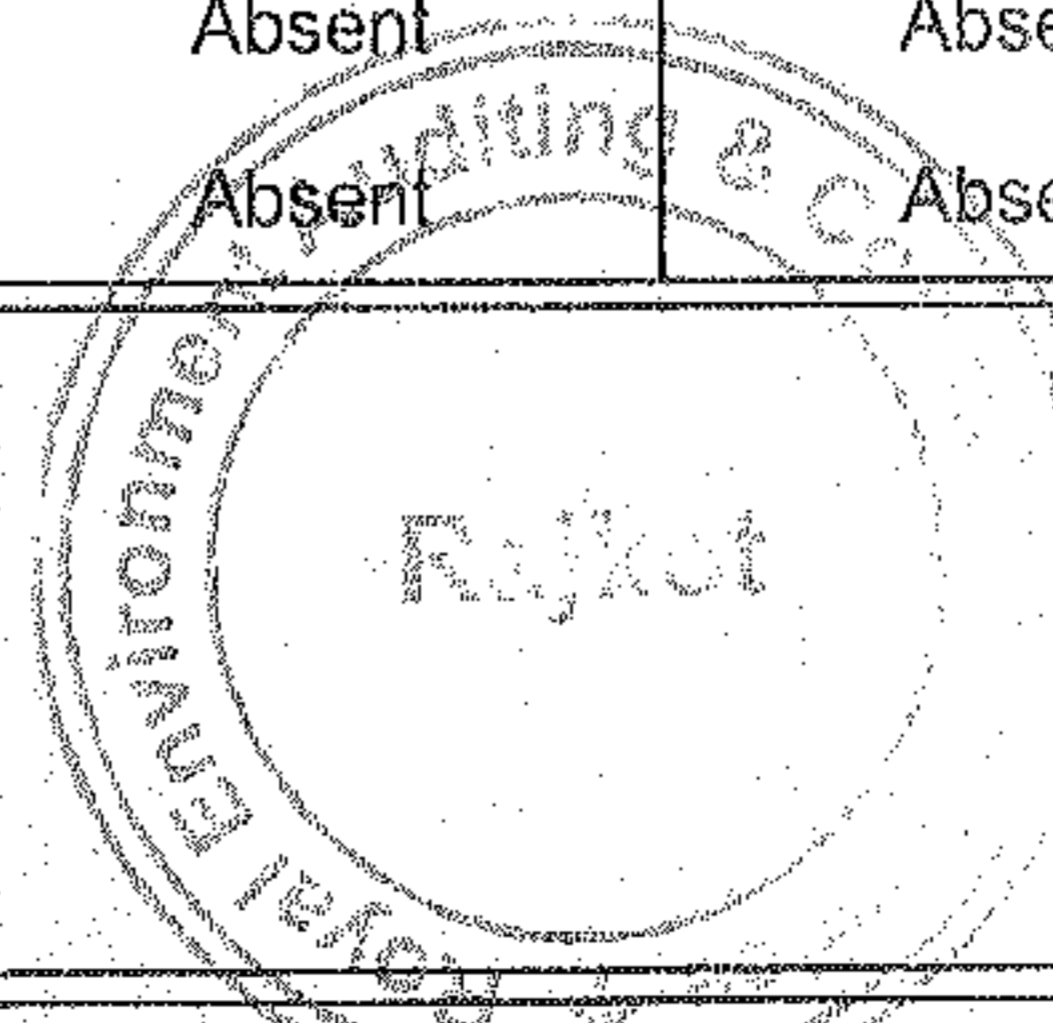
Sampling Method : IS 3025 : Part 1

Location of Sample : Ground Water - Nr. Solid Waste Storage Area

Sr. No.	Parameters	Unit	Acceptable Limits	Permissible Limits as per IS 10500-2012	Results	Test Method
01.	Color	Hazen Units	5	15	Colorless	IS 3025 : Part 44
02.	Odour	---	Agreeable	Agreeable	Odourless	IS 3025 : Part 5
03.	pH Value	---	6.5 - 8.5	No relaxation	7.26	IS 3025 : Part 11
04.	Turbidity	NTU	1	5	6	IS 3025 : Part 10
05.	Total Dissolved Solids	mg/l	500	2000	1529	IS 3025 : Part 16
06.	Total Suspended Solids	mg/l	---	---	14.9	IS 3025 : Part 17
07.	Total hardness (as CaCO ₃)	mg/l	200	600	838	IS 3025 : Part 21
08.	Calcium (as Ca)	mg/l	75	200	629	IS 3025 : Part 40
09.	Magnesium (as Mg)	mg/l	30	100	350	IS 3025 : Part 46
10.	Chloride (as Cl)	mg/l	250	1000	481	IS 3025 : Part 32
11.	Sulphate (as SO ₄)	mg/l	200	400	1031	IS 3025 : Part 24
12.	Total alkalinity as (as CaCO ₃)	mg/l	200	600	765	IS 3025 : Part 23
13.	Nitrate (as NO ₃)	mg/l	45	No relaxation	143	IS 3025 : Part 34
14.	Fluoride (as F)	mg/l	1	1.5	0.06	IS 3025 : Part 60
15.	Iron (as Fe)	mg/l	0.3	No relaxation	0.32	IS 3025 : Part 53
16.	Mineral oil	mg/l	0.5	No relaxation	N.D.	IS 3025 : Part 39
17.	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	0.001	0.002	0.06	IS 3025 : Part 43
18.	Total arsenic (as As)	mg/l	0.01	0.05	Nil	IS 3025 : Part 37
19.	E. Coli	---	Absent	Absent	Absent	APHA
20.	Total Coliform Bacteria	---	Absent	Absent	Absent	APHA

**** This water can't be used as drinking water**

Authorized Signatory
Digvijay Jadeja



Mukesh
Analyst

* End of Report *

1. This test report (FMT-TP-SRV-014) shall not be reproduced except in full, without written approval from the Royal Environment Auditing & Consultancy Service
2. The results relate only to the item tested.

Doc. No. FMT-TP-SRV-014/ Issue No. 01 / Issue Date : 23-03-14 / Ammend No.00 / Ammend Date : ---

ANNEXURE 8

Report of Fly Ash for Toxic Element

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008

MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009

MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016

Plot No. 97, Sector 1/A
Gandhidham - 370201
[CIN : U51909WB1956PTC023037]

T : 02836 226225
F : 02836 226225
E : gandhidham@mitrask.co.in

Certificate No. GDM/16-17/C-0516
Ref. No. : SJ/GAN/FA-2016/00005

Date: 30.09.2016

CERTIFICATE OF ANALYSIS

We hereby certify that One sample describe as "FLY ASH" submitted to us by M/s. GALLANT METALS LTD - GANDHIDHAM, on 20.09.2016 has been analyzed with the following results.

Analysis Result:

PARAMETERS	FLY ASH
Cobalt(Co)	0.0016 %
Nickel(Ni)	0.0071 %
Zinc(Zn)	0.0065 %
Chromium(Cr.)	0.0019 %
Vanadium(v)	0.0056 %
Arsenic(As)	0.0005 %
Molybdenum(Mo)	Less than 0.0001 (1ppm) %
Barium(Ba)	0.05 %
Lead(Pb)	0.0009 %
Mercury(Hg)	Less than 0.0001 %
Copper(Cu)	0.0039 %

M/s. GALLANTT METALS LTD.,
GANDHIDHAM

Checked By: 

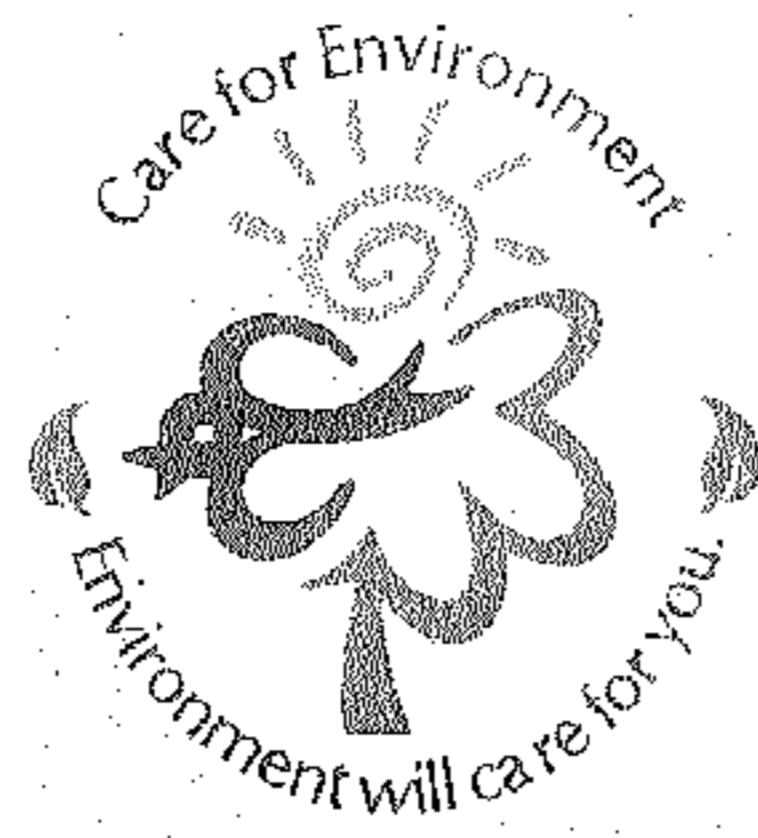
M/s. Mitra S. K. Private Limited

Authorized Signatory



ANNEXURE 9 &10
Report of Waste Water and Treated
Waste Water

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 677/01/2016-17

Date : 30/01/2017

WASTE WATER SAMPLE ANALYSIS REPORT

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

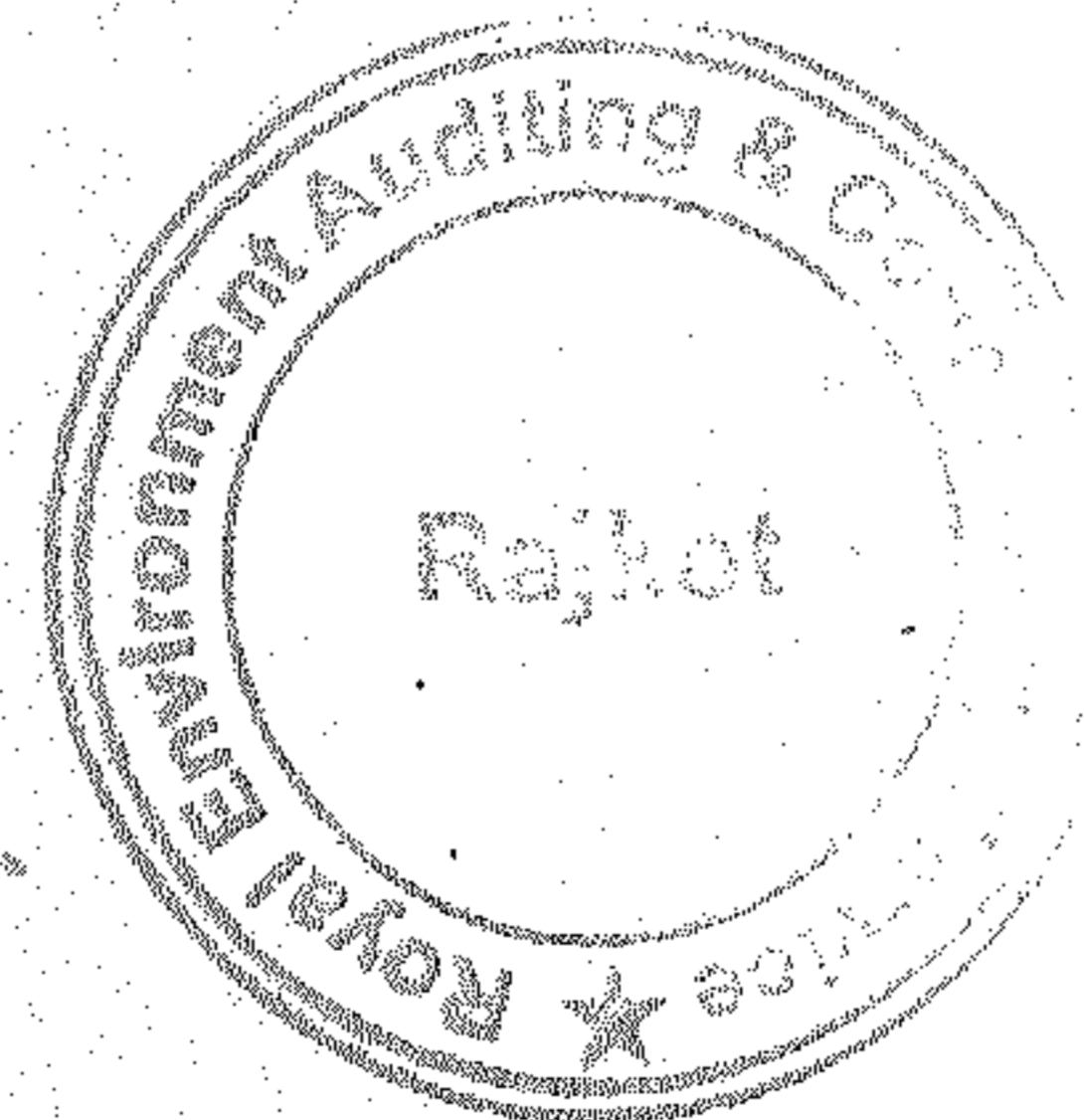
Date of sampling : 21/01/2017

Source of Sample: Waste Water Treatment Plant (ETP Plant)

Sr. No.	Parameters	Unit	GPCB Limits *	Waste Water (ETP Inlet)	Treated Water (ETP Outlet)
1	pH	pH Unit	6.5 to 8.5	8.4	7.25
2	Colour	Pt.co scale	100 Units	43	17
3	Temp.	°C	40	31	29
4	Suspended Solids	Mg/Lit	100	40	16
5	Total Dissolved Solids	Mg/Lit	---	876	370
6	Total Solids	Mg/Lit	---	916	386
7	Oil & Grease	Mg/Lit	10	2.4	0.89
8	Sulphides	Mg/Lit	2	1.6	0.56
9	Phosphate	Mg/Lit	5	5.3	2.9
10	BOD	Mg/Lit	30	79	24
11	COD	Mg/Lit	100	195	54
12	Total Chromium (as Cr)	Mg/Lit	0.2	0.6	0.07
13	Hexavalent Cr	Mg/Lit	0.1	0.37	0.23
14	Copper	Mg/Lit	1.0	0.73	0.48
15	Total Iron (as Fe)	Mg/Lit	1.0	3.8	0.57
16	Zinc (as Zn)	Mg/Lit	1.0	0.5	NIL

* GPCB Limits are only applicable to treated waste water (ETP Outlet)

Royal Environment Auditing & Consultancy Service



M. M. M. M.
Analyst



Royal

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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 637/10/2016-17

Date : 03/11/2016

WASTE WATER SAMPLE ANALYSIS REPORT

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

Date of sampling : 10/10/2016

Source of Sample: Waste Water Treatment Plant (ETP Plant)

Sr. No.	Parameters	Unit	GPCB Limits *	Waste Water (ETP Inlet)	Treated Water (ETP Outlet)
1	pH	pH Unit	6.5 to 8.5	8.6	7.19
2	Colour	Pt.co scale	100 Units	38	18
3	Temp.	°C	40	36	34
4	Suspended Solids	Mg/Lit	100	34	19
5	Total Dissolved Solids	Mg/Lit	---	914	362
6	Total Solids	Mg/Lit	---	948	381
7	Oil & Grease	Mg/Lit	10	2.9	1.0
8	Sulphides	Mg/Lit	2	1.4	0.8
9	Phosphate	Mg/Lit	5	6.2	3.3
10	BOD	Mg/Lit	30	76	25
11	COD	Mg/Lit	100	263	59
12	Total Chromium (as Cr)	Mg/Lit	0.2	0.8	0.09
13	Hexavalent Cr	Mg/Lit	0.1	0.33	0.21
14	Copper	Mg/Lit	1.0	0.67	0.45
15	Total Iron (as Fe)	Mg/Lit	1.0	3.5	0.50
16	Zinc (as Zn)	Mg/Lit	1.0	0.7	NIL

* GPCB Limits are only applicable to treated waste water (ETP Outlet)

Royal Environment Auditing & Consultancy Service



Mukher
Analyst

GALLANTT METAL LTD, SAMAKHIALI


WASTE WATER ANALYSIS REPORT

AREA: COOLING TOWER BLOW DOWN

DATE	TDS	PH
01/12/2016	251	8.69
02/12/2016	277	8.73
03/12/2016	263	8.63
04/12/2016	275	8.77
05/12/2016	254	8.63
06/12/2016	274	8.69
07/12/2016	251	8.69
08/12/2016	277	8.73
09/12/2016	263	8.63
10/12/2016	275	8.77
11/12/2016	254	8.63
12/12/2016	274	8.69
13/12/2016	251	8.69
14/12/2016	277	8.73
15/12/2016	269	8.81
16/12/2016	266	8.7
17/12/2016	274	8.63
18/12/2016	251	8.69
19/12/2016	277	8.73
20/12/2016	269	8.81
21/12/2016	263	8.63
22/12/2016	275	8.77
23/12/2016	254	8.63
24/12/2016	266	8.7
25/12/2016	274	8.63
26/12/2016	251	8.69
27/12/2016	277	8.73
28/12/2016	269	8.81
29/12/2016	263	8.63
30/12/2016	274	8.63
31/12/2016	251	8.69

AREA: BOILER BLOW DOWN

DATE	TDS	PH
01/12/2016	71	9.73
02/12/2016	71	9.73
03/12/2016	68	9.93
04/12/2016	47	9.81
05/12/2016	47	9.01
06/12/2016	71	9.73
07/12/2016	71	9.73
08/12/2016	68	9.93
09/12/2016	47	9.81
10/12/2016	47	9.01
11/12/2016	71	9.73
12/12/2016	68	9.93
13/12/2016	47	9.81
14/12/2016	58	9.93
15/12/2016	21	9.58
16/12/2016	43	9.69
17/12/2016	69	9.77
18/12/2016	58	9.93
19/12/2016	41	9.58
20/12/2016	69	9.77
21/12/2016	28	9.73
22/12/2016	53	9.89
23/12/2016	73	9.61
24/12/2016	43	9.69
25/12/2016	69	9.77
26/12/2016	69	9.77
27/12/2016	28	9.73
28/12/2016	53	9.89
29/12/2016	73	9.61
30/12/2016	43	9.69
31/12/2016	73	9.61

For GALLANTT METAL LTD.

 Authorized Signatory

GALLANTT METAL LTD, SAMAKHIALI

WASTE WATER ANALYSIS REPORT

AREA: DM & RO REJECTS

DATE	TDS	PH	TOTAL HARDNESS
01/12/2016	565	8.24	323
02/12/2016	568	8.14	322
03/12/2016	555	8.13	324
04/12/2016	564	8.18	315
05/12/2016	545	8.23	319
06/12/2016	565	8.24	323
07/12/2016	534	8.23	342
08/12/2016	546	8.21	334
09/12/2016	555	8.13	324
10/12/2016	564	8.18	315
11/12/2016	545	8.23	319
12/12/2016	555	8.13	324
13/12/2016	564	8.18	315
14/12/2016	545	8.23	319
15/12/2016	564	8.18	315
16/12/2016	545	8.15	318
17/12/2016	545	8.15	318
18/12/2016	568	8.14	322
19/12/2016	555	8.13	324
20/12/2016	564	8.18	315
21/12/2016	522	8.12	315
22/12/2016	545	8.15	318
23/12/2016	568	8.14	322
24/12/2016	555	8.13	324
25/12/2016	534	8.23	342
26/12/2016	546	8.21	334
27/12/2016	555	8.13	324
28/12/2016	564	8.18	315
29/12/2016	545	8.15	318
30/12/2016	545	8.15	318
31/12/2016	568	8.14	322

FOR GALLANTT METAL LTD,


Authorised Signatory

ANNEXURE 11

Time bound action plan for Fly Ash

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008

MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009

MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016

ANNEXURE 11

SOLID WASTE DISPOSAL/RECYCLE/UTILISATION PLAN FOR YEAR 2017-18

DESCRIPTION	OPENING STOCK ON 01/04/17 IN MT	EXPECTED GENERATION 01/04/17 TO 31/03/18 IN MT	DISPOSAL/RECYCLE/UTILISATION PLAN	EXPECTED BALANCE STOCK ON 31/03/17 IN MT
FLY ASH	1412.170	50000	40-45% TO BE SEND FOR CEMENT BLOCKS/BRICK MAKING, 50-55% TO BE SEND TO TSDF SITE	350
COAL CHAR	7680.440	56000	100% TO BE USED IN POWER PLANT AS RAW MATERIAL	450

HAZARDOUS WASTE DISPOSAL/RECYCLE/UTILISATION PLAN FOR YEAR 2017-18

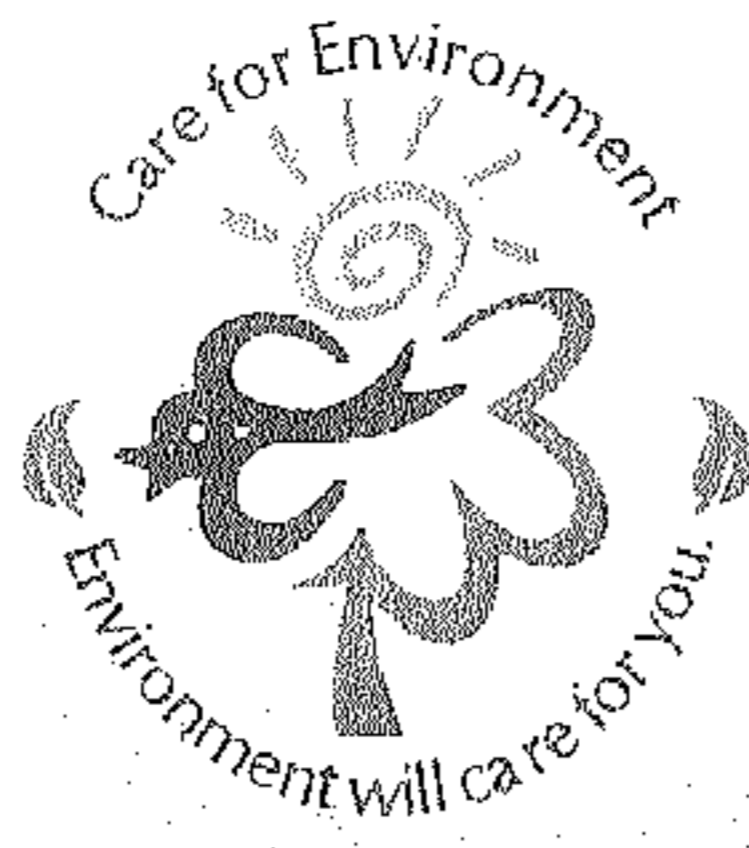
DESCRIPTION	OPENING STOCK ON 01/04/17 IN MT	EXPECTED GENERATION 01/04/17 TO 31/03/18 IN MT	DISPOSAL/RECYCLE/UTILISATION PLAN	EXPECTED BALANCE STOCK ON 31/03/17 IN MT
USED ION EXCHANGE RESIN	NIL	0.350	100 % TO BE DISPOSED OF BY INCINERATION AT COMMON HAZARDOUS WASTE INCINERATION FACILITY	NIL
USED OIL	NIL	1.617	100 % TO BE SEND TO REGISTERED RECYCLERS	NIL

For GALLANTT METAL LTD.

 Authorised Signatory

ANNEXURE 6 FUGITIVE EMISSION ANALYSIS REPORT

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph.: +91 281 2360695 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 666/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

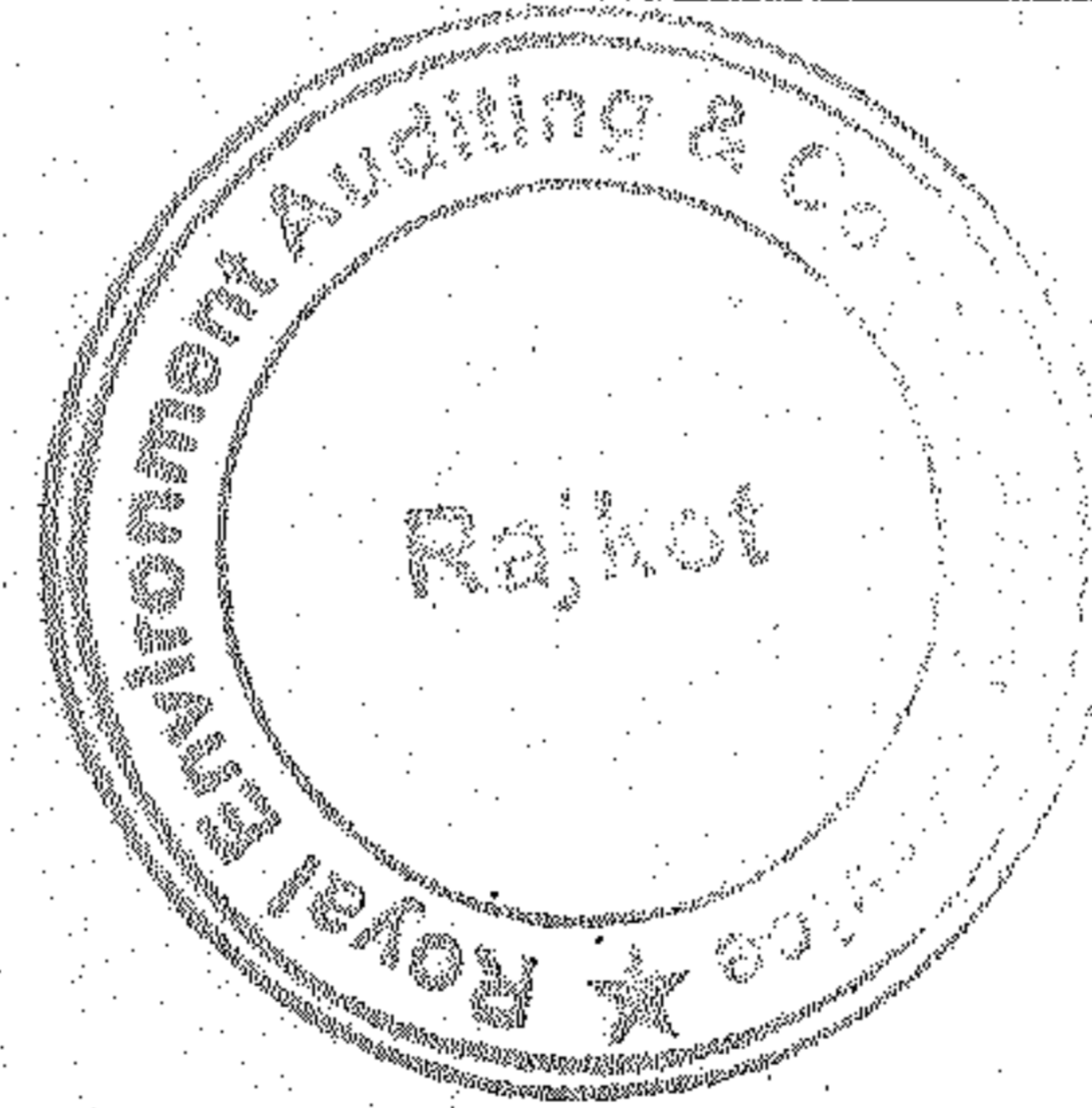
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Near raw material handling area

Sr. No.	Particulars	Unit	Location # 1	Location # 2	Location # 3	Location # 4
01.	Location of Sampling	---	Nr. Vagon trippler	Nr. Sreen area	Nr. Transfer point	Nr. Stock Bin area
02.	Date of sampling	---	20-01-2017	20-01-2017	20-01-2017	20-01-2017
03.	Time of sampling	Hr	8.35	8.45	8.55	9.10
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	4 to 15	4 to 15	4 to 15	4 to 15
06.	Average flow rate during sampling	m ³ /minute	1.07	1.11	1.06	1.03
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1696	1883	2115	1959

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

[Signature]
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.
Ph.: +91 281 2360695 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No. : 667/01/2016-17

Date : 30/01/2017

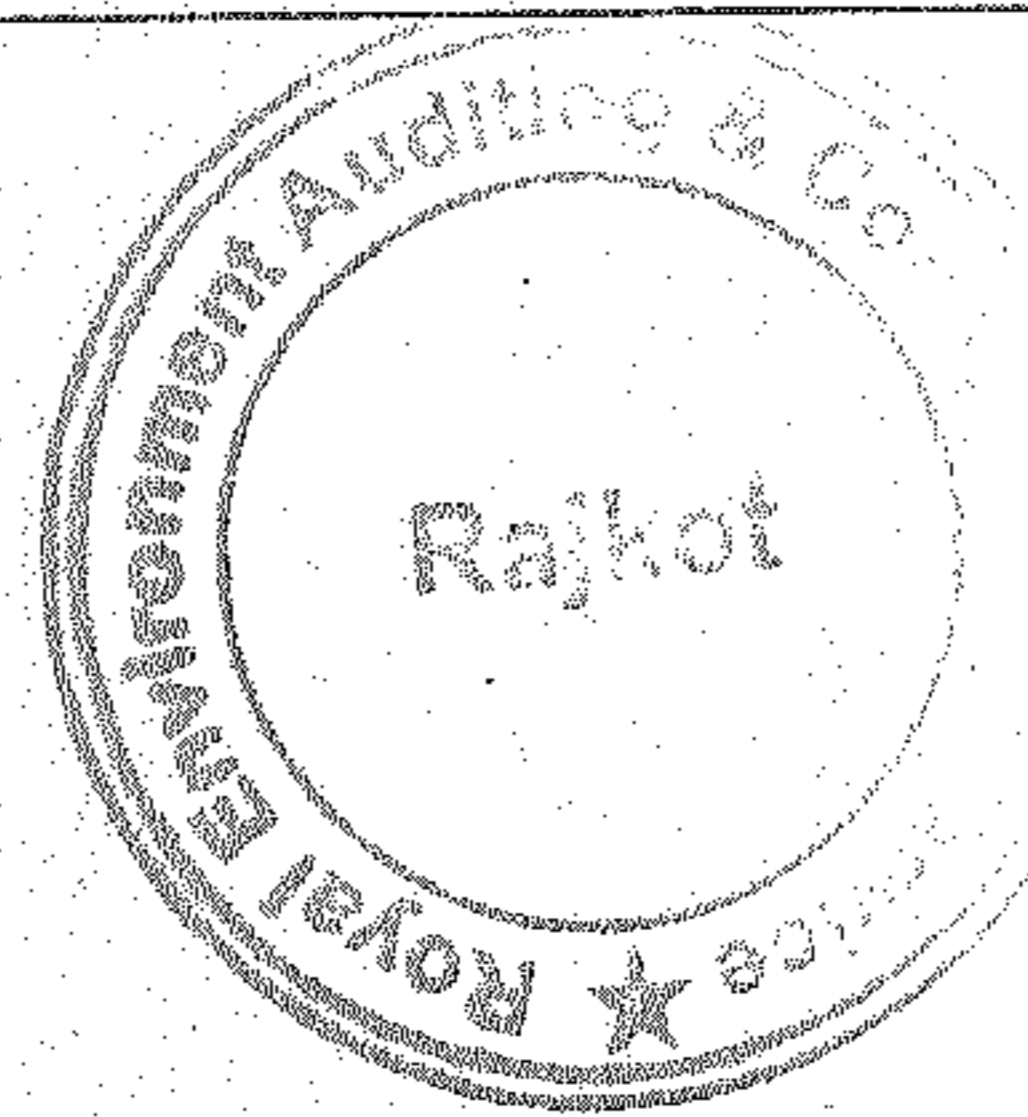
REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Crusser area

Sr.No.	Particulars	Unit	Location # 5	Location # 6	Location # 7
01.	Location of Sampling	---	Nr. Crusser area	Nr. Vibrating screen	Nr. Transfer point
02.	Date of sampling	---	20-01-2017	20-01-2017	20-01-2017
03.	Time of sampling	Hr	9.20	9.30	17.00
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	5 to 16	5 to 16	5 to 16
06.	Average flow rate during sampling	m ³ /minute	1.08	1.10	1.03
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1839	2093	2159

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217
Calibration due on. 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002.
Ph.: +91 281 2360695 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 668/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

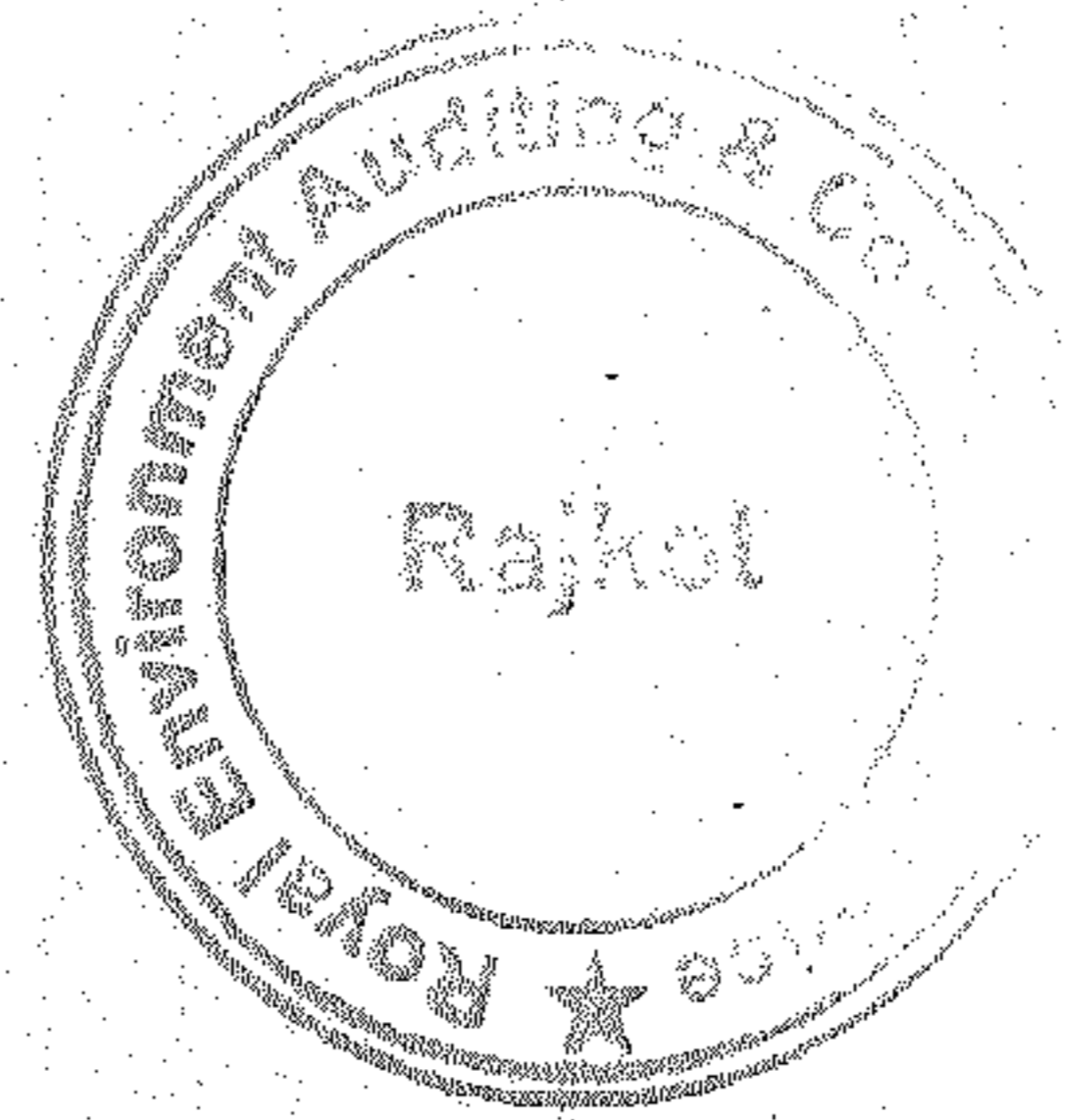
Name of company : **Gallantt Metal Limited**
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Raw material feeder area

Sr. No.	Particulars	Unit	Location # 8	Location # 9	Location # 10
01.	Location of Sampling	---	Nr. Feeder area	Nr. mixing Feeder area	Nr. Transfer point
02.	Date of sampling	---	20-01-2017	20-01-2017	20-01-2017
03.	Time of sampling	Hr	17.10	17.20	17.30
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	5 to 16	5 to 16	5 to 16
06.	Average flow rate during sampling	m ³ /minute	1.09	1.11	1.00
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1769	1835	2028

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

Mullesh
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002.
Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 668/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

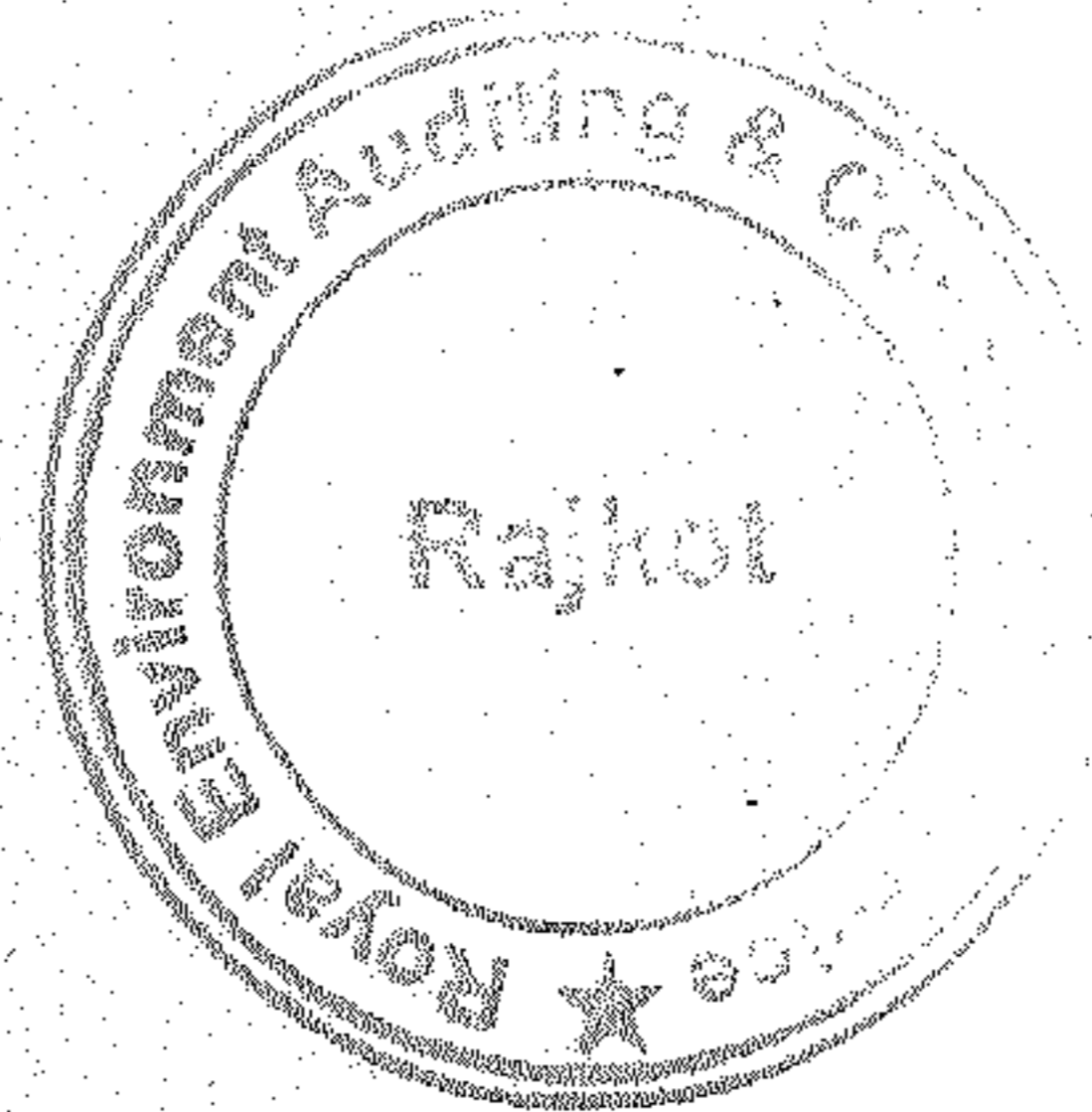
Name of company : **Gallantt Metal Limited**
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Raw material feeder area

Sr. No.	Particulars	Unit	Location # 8	Location # 9	Location # 10
01.	Location of Sampling	---	Nr. Feeder area	Nr. mixing Feeder area	Nr. Transfer point
02.	Date of sampling	---	20-01-2017	20-01-2017	20-01-2017
03.	Time of sampling	Hr	17.10	17.20	17.30
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	5 to 16	5 to 16	5 to 16
06.	Average flow rate during sampling	m ³ /minute	1.09	1.11	1.00
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1769	1835	2028

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017



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Ref. No. : 669/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

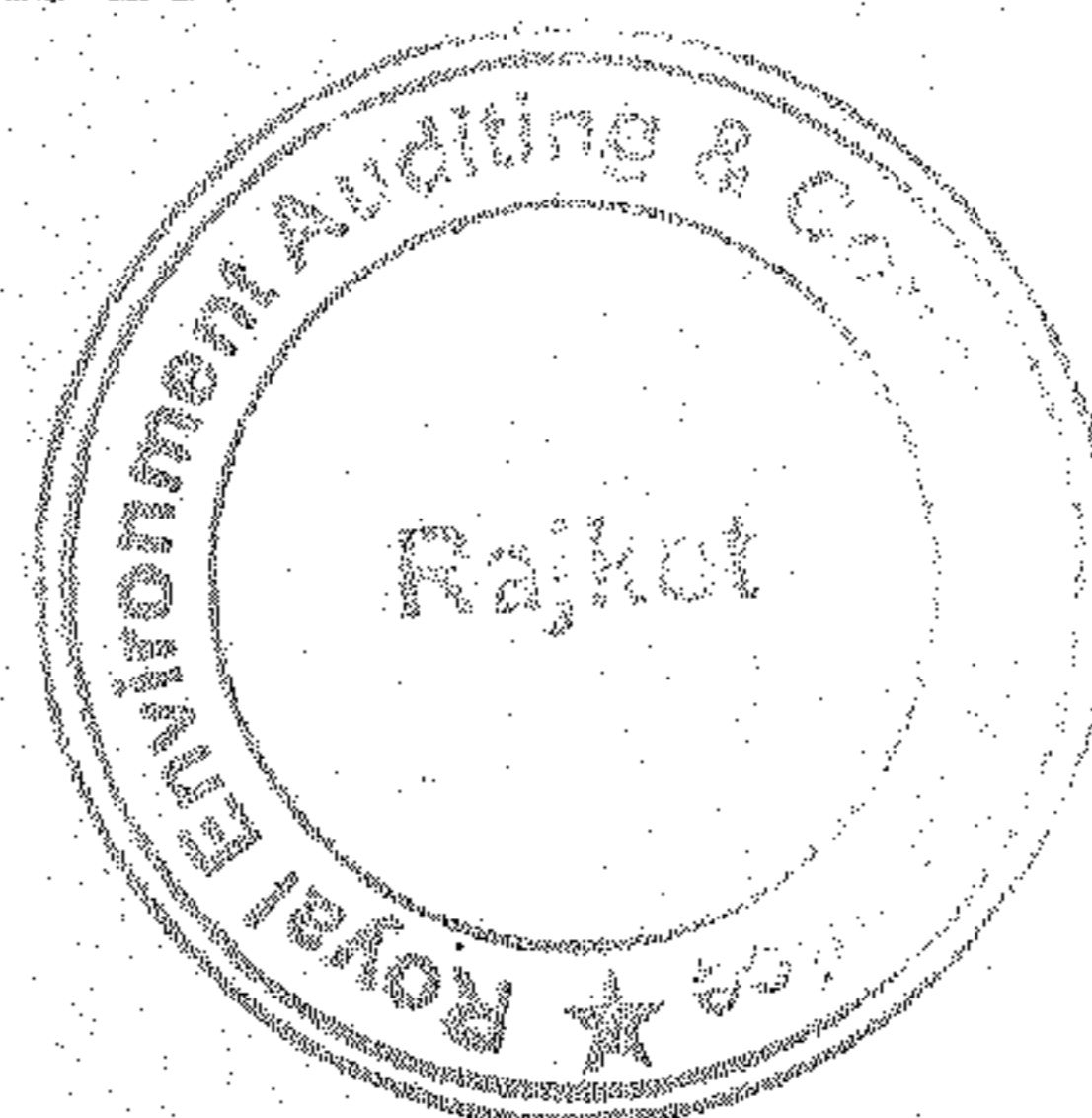
Name of company : **Gallantt Metal Limited**
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Cooler Discharge Area

Sr. No.	Particulars	Unit	Location # 11	Location # 12
01.	Location of Sampling	---	Nr. Wagon tippler	Nr. Screen area
02.	Date of sampling	---	20-01-2017	20-01-2017
03.	Time of sampling	Hr	17.45	18.00
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	5 to 16	5 to 16
06.	Average flow rate during sampling	m ³ /minute	1.06	1.11
07.	Permissible limit for SPM	µg/m ³	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1866	2034

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

M. M. M. M.
Analyst



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 670/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

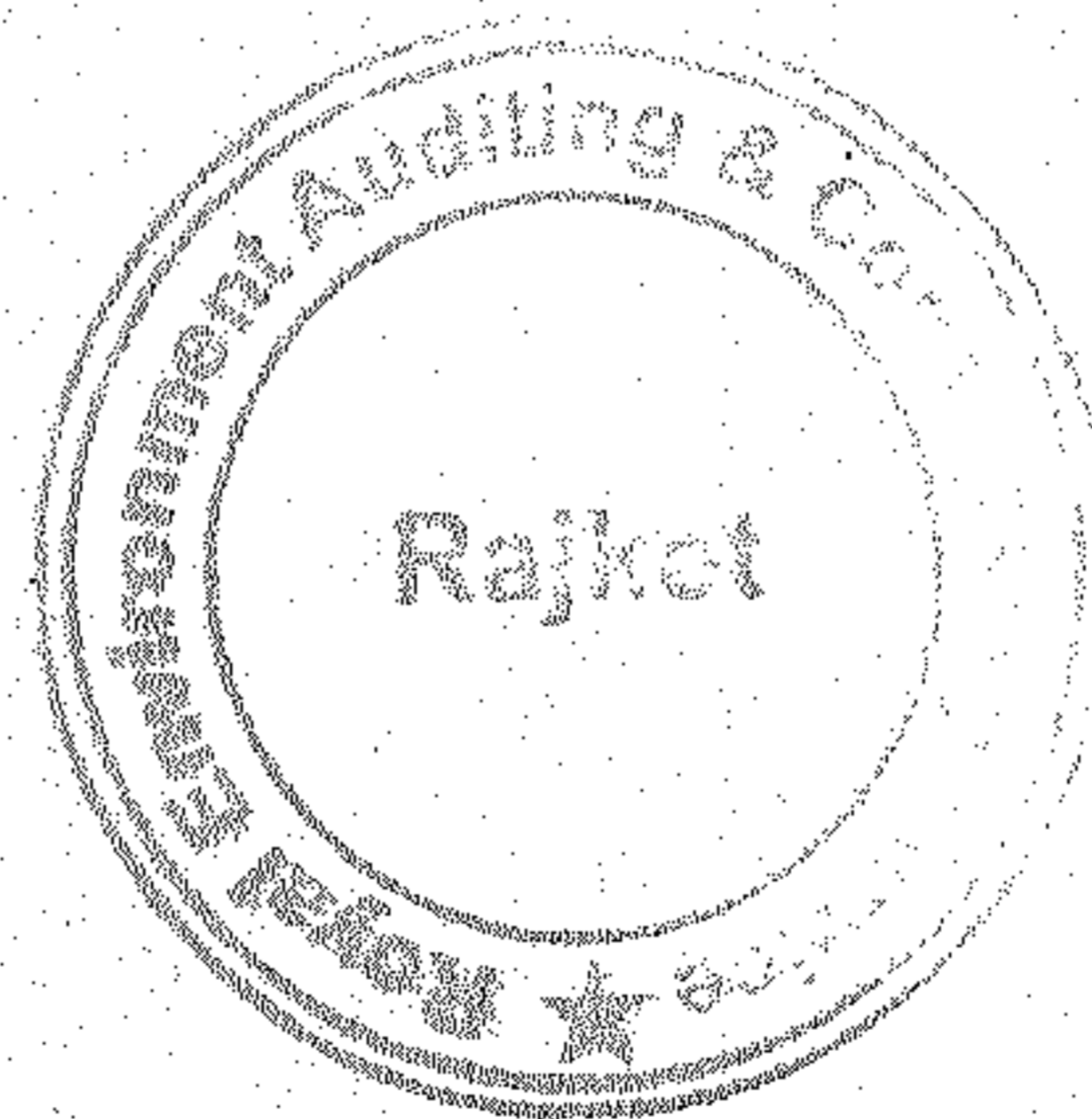
Sampling Site: Product Processing area

Sr. No.	Particulars	Unit	Location # 13	Location # 14	Location # 15	Location # 16
01.	Location of Sampling	---	Nr. Intermediate stock bin area	Nr. Screening plant	Nr. Magnetic saprating plant	Nr. Transfer plant
02.	Date of sampling	---	21-01-2017	21-01-2017	21-01-2017	21-01-2017
03.	Time of sampling	Hr	8.00	8.10	8.20	8.30
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	5 to 14	5 to 14	5 to 14	5 to 14
06.	Average flow rate during sampling	m ³ /minute	1.06	1.08	1.10	1.11
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	2212	1856	1938	2057

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

Royal Environment Auditing & Consultancy Service



[Signature]
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Ref. No. : 671/01/2016-17

Date : 30/01/2017

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**
Survey No. 175/1;
Near toll gate,
Village : Samakhali,
Taluka : Bhachau,
Kutch, Gujarat.

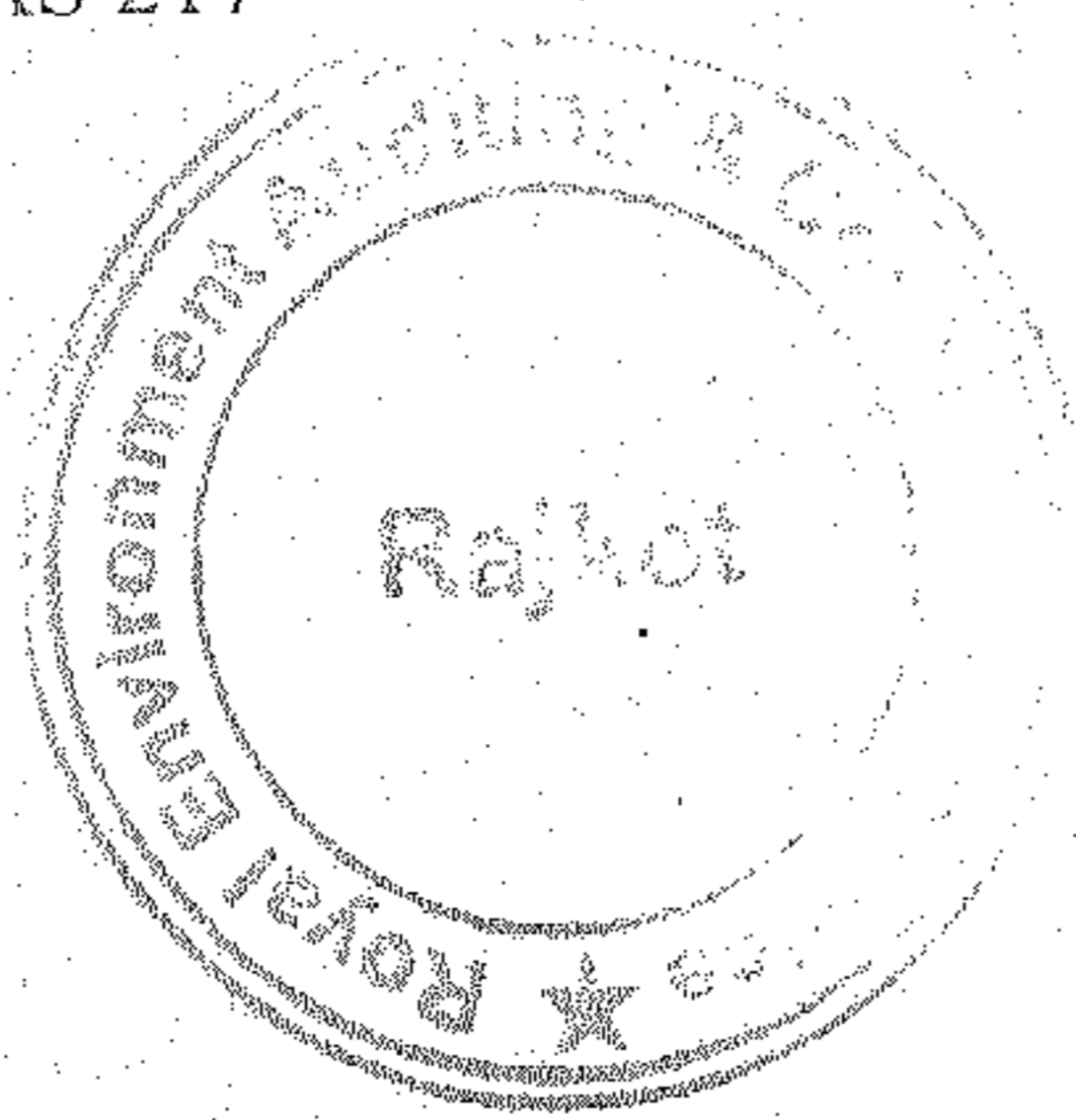
Sampling Site: Product Processing area

Sr. No.	Particulars	Unit	Location # 17	Location # 18	Location # 19
01.	Location of Sampling	---	Nr. Oversize discharge area	Nr. Product separation	Bagging area
02.	Date of sampling	---	21-01-2017	21-01-2017	21-01-2017
03.	Time of sampling	Hr	16.40	16.50	17:00
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	4 to 14	4 to 14	4 to 14
06.	Average flow rate during sampling	m ³ /minute	1.06	1.18	1.10
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1966	2018	1935

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Ph.: +91 281 2360695 ■ E-mail : royalsenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 625/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

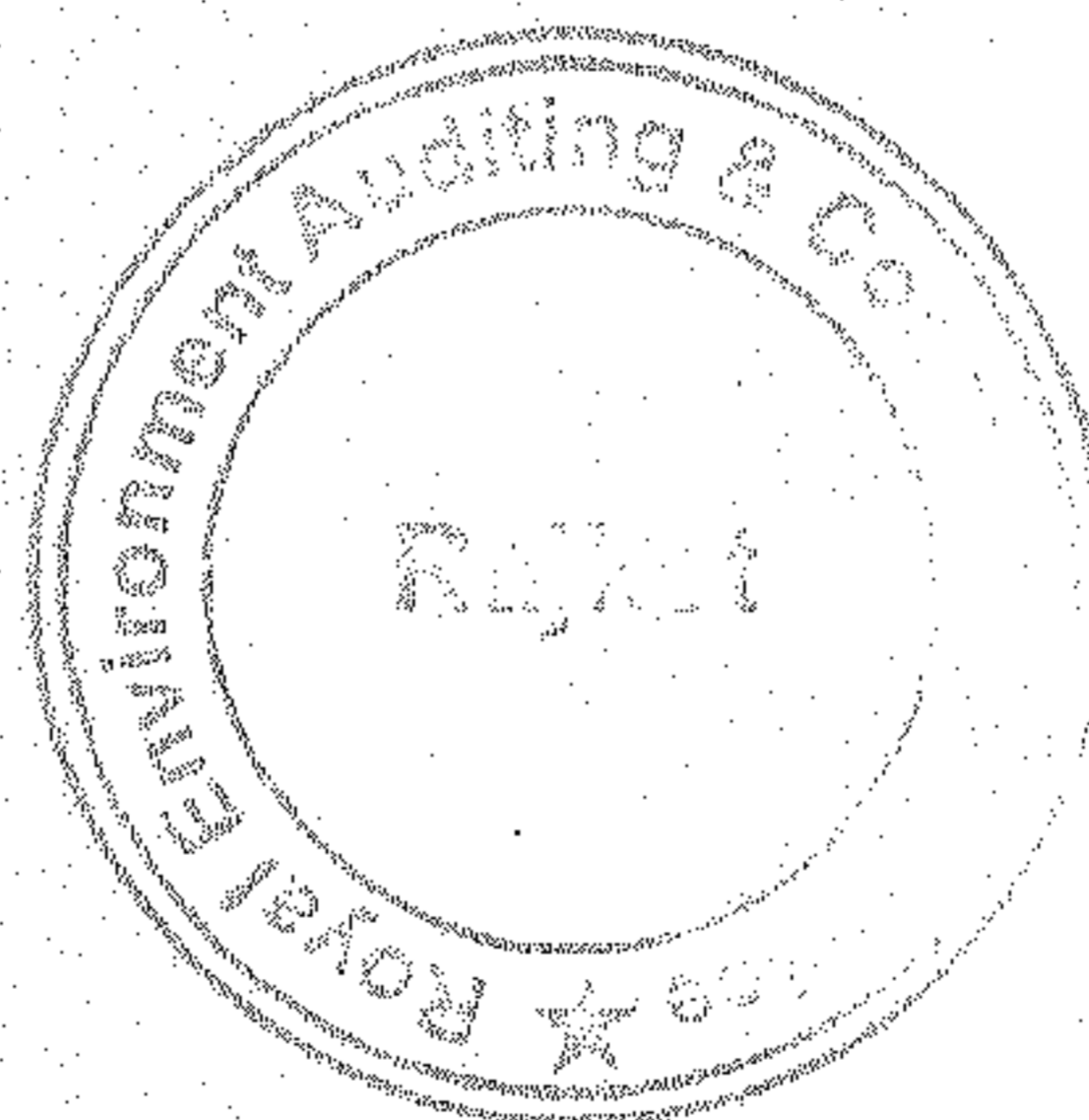
Sampling Site: Near raw material handling area

Sr. No.	Particulars	Unit	Location # 1	Location # 2	Location # 3	Location # 4
01.	Location of Sampling	---	Nr. Vagon trippler	Nr. Sreen area	Nr. Transfer point	Nr. Stock Bin area
02.	Date of sampling	---	10-10-2016	10-10-2016	10-10-2016	10-10-2016
03.	Time of sampling	Hr	8.50	9.00	9.05	9.15
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	3 to 12	3 to 12	3 to 12	3 to 12
06.	Average flow rate during sampling	m ³ /minute	1.11	1.13	1.14	1.09
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1839	2158	2249	2217

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Environment Auditing & Consultancy Service

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Ref. No. : 626/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

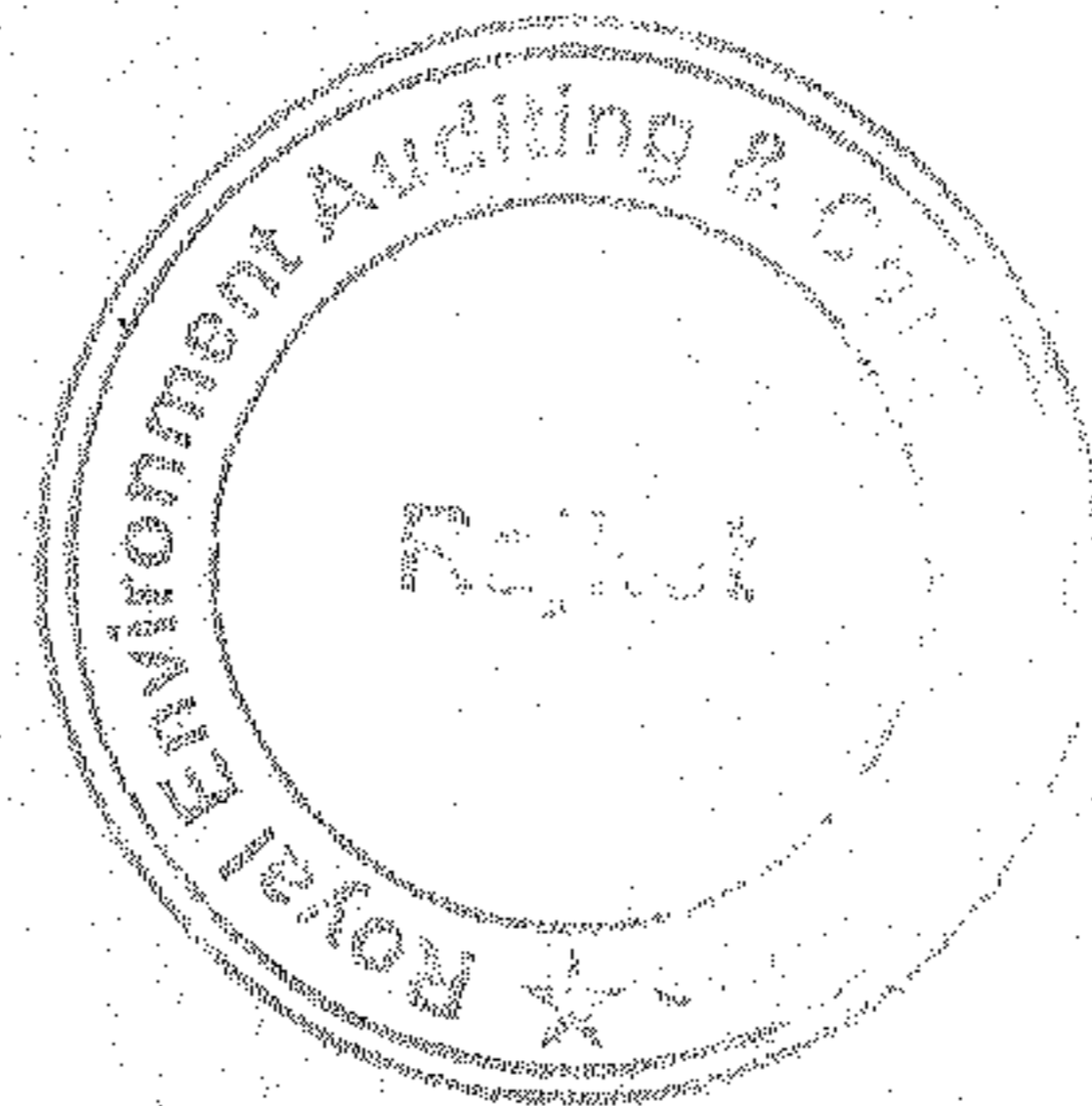
Sampling Site: Crusser area

Sr.No.	Particulars	Unit	Location # 5	Location # 6	Location # 7
01.	Location of Sampling	---	Nr. Crusser area	Nr. Vibrating sreen	Nr. Transfer point
02.	Date of sampling	---	10-10-2016	10-10-2016	10-10-2016
03.	Time of sampling	Hr	9.25	9.35	17.00
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	4 to 14	4 to 14	4 to 14
06.	Average flow rate during sampling	m ³ /minute	1.00	1.04	1.08
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	2015	2110	1925

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Ref. No. : 628/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Raw material feeder area

Sr. No.	Particulars	Unit	Location # 8	Location # 9	Location # 10
01.	Location of Sampling	---	Nr. Feeder area	Nr. mixing Feeder area	Nr. Transfer point
02.	Date of sampling	---	10-10-2016	10-10-2016	10-10-2016
03.	Time of sampling	Hr	17.10	17.20	17.30
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	4 to 12	4 to 12	4 to 14
06.	Average flow rate during sampling	m ³ /minute	1.10	1.12	1.02
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1876	1929	2123

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Ref. No. : 629/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

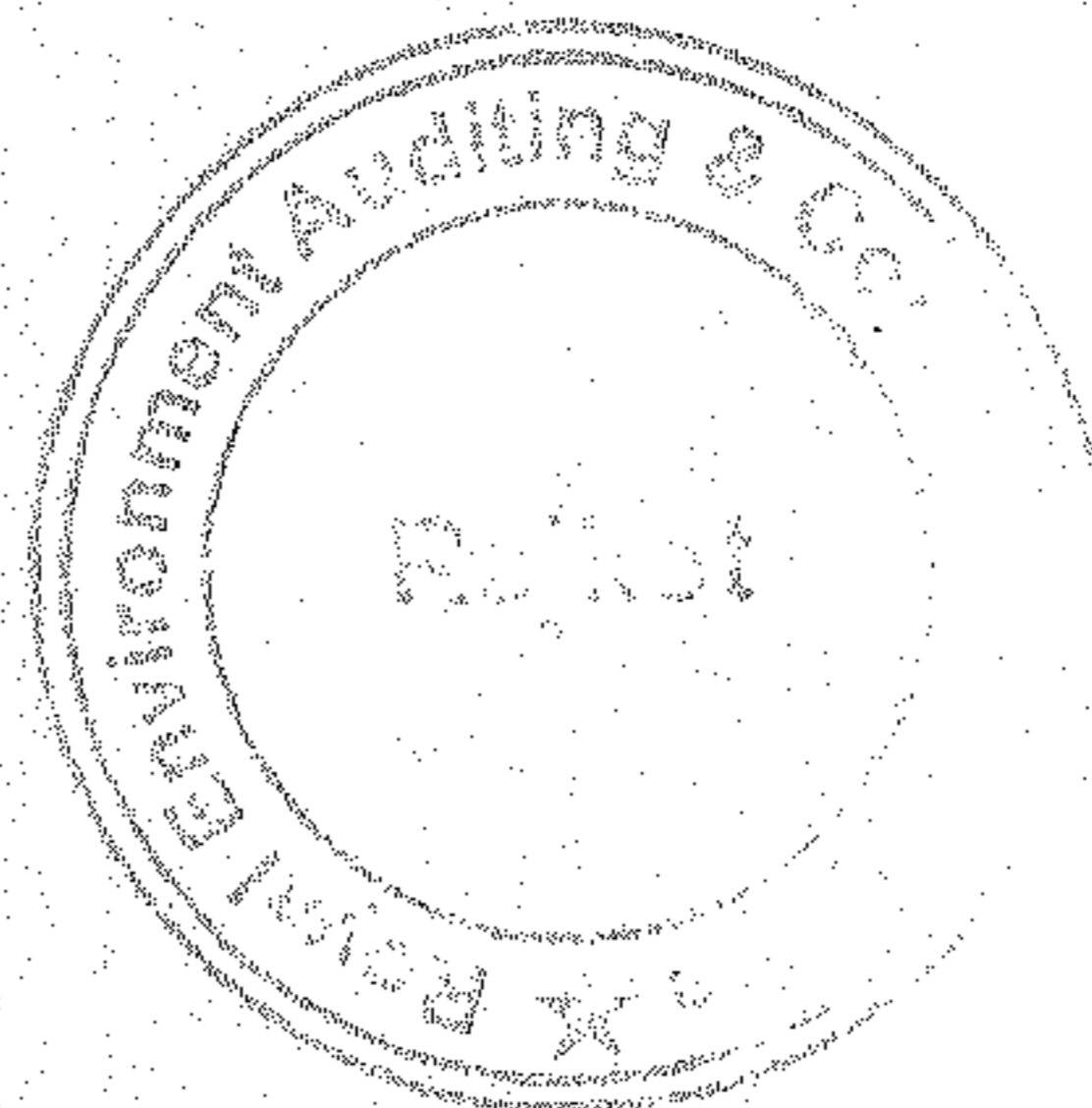
Sampling Site: Cooler Discharge Area

Sr. No.	Particulars	Unit	Location # 11	Location # 12
01.	Location of Sampling	---	Nr. Wagon tippler	Nr. Screen area
02.	Date of sampling	---	11-10-2016	11-10-2016
03.	Time of sampling	Hr	8.00	8.10
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	3 to 12	3 to 12
06.	Average flow rate during sampling	m ³ /minute	1.13	1.08
07.	Permissible limit for SPM	µg/m ³	3000	3000
08.	Measured Concentration of SPM	µg/m ³	2056	2127

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Ref. No. : 630/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sampling Site: Product Processing area

Sr. No.	Particulars	Unit	Location # 13	Location # 14	Location # 15	Location # 16
01.	Location of Sampling	---	Nr. Intermediate stock bin area	Nr. Screening plant	Nr. Magnetic saprating plant	Nr. Transfer plant
02.	Date of sampling	---	11-10-2016	11-10-2016	11-10-2016	11-10-2016
03.	Time of sampling	Hr	8.20	8.30	8.40	16.05
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	3 to 12	3 to 12	3 to 12	3 to 12
06.	Average flow rate during sampling	m ³ /minute	1.10	1.02	1.09	1.12
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	2323	2219	1869	1954

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 631/10/2016-17

Date : 03/11/2016

REPORT OF FUGITIVE EMISSION MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

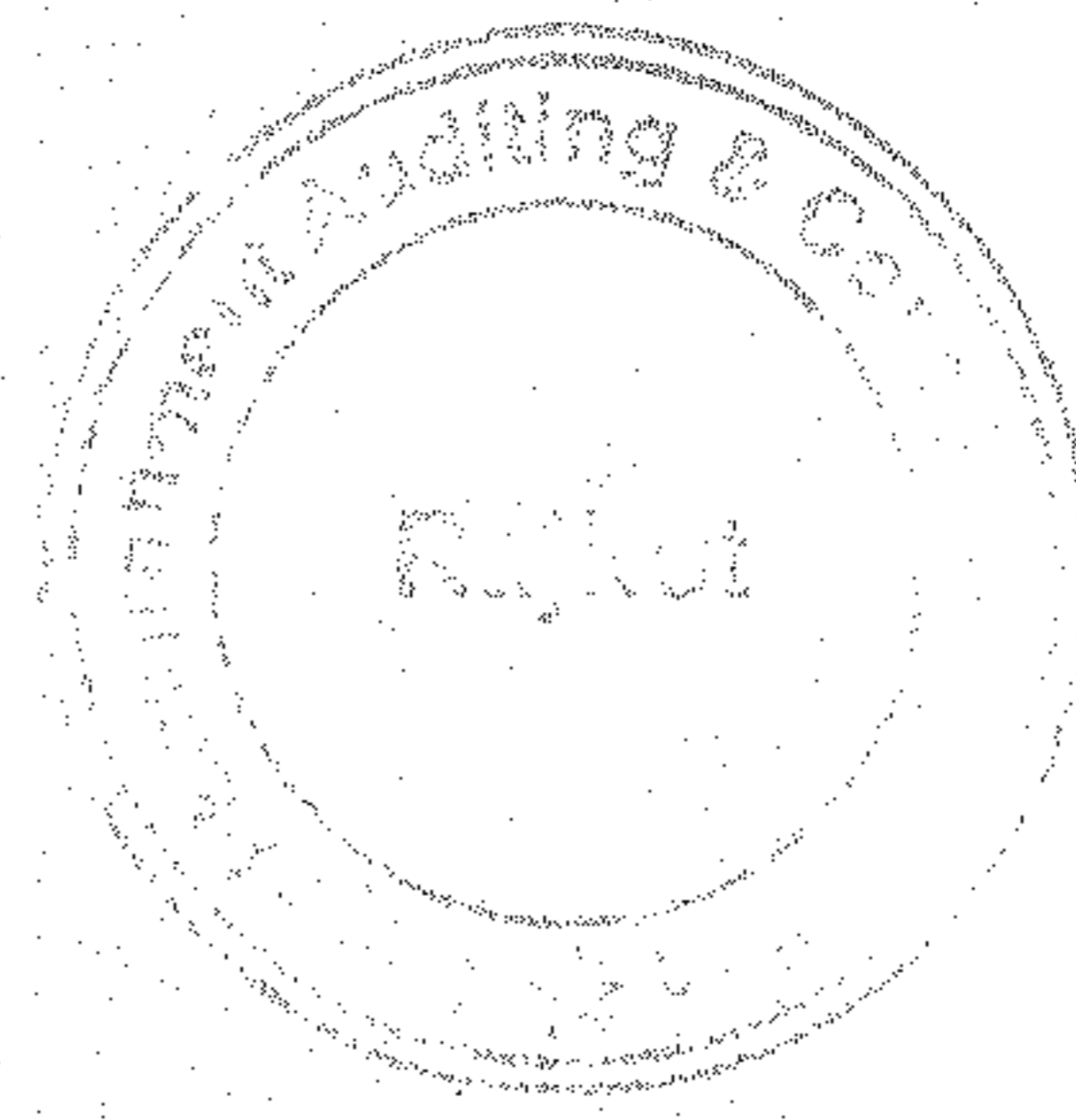
Sampling Site: Product Processing area

Sr. No.	Particulars	Unit	Location # 17	Location # 18	Location # 19
01.	Location of Sampling	---	Nr. Oversize discharge area	Nr. Product separation	Bagging area
02.	Date of sampling	---	11-10-2016	11-10-2016	11-10-2016
03.	Time of sampling	Hr	16.15	16.25	16.35
04.	Dominant Wind Direction (From)	---	NE to SW	NE to SW	NE to SW
05.	Average Wind Speed	Km/Hr	2 to 12	2 to 12	2 to 12
06.	Average flow rate during sampling	m ³ /minute	1.09	1.13	1.11
07.	Permissible limit for SPM	µg/m ³	3000	3000	3000
08.	Measured Concentration of SPM	µg/m ³	1946	2125	1836

Instruments Used : Envirotech HVS APM 430 & Ecotech RDS - AAS 217

Calibration due on. 1) 15/05/2017

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Mukesh
Analyst

ANNEXURE 12

Disposal of Used Oil to Registered Recycler

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016

GALLANTT METAL LIMITED

Village : SAMAKHYARI
 Taluka : Bhachu
 Dist : Kutch , GUJARAT - 370 150
 Phone: -(02837) 283557
 Email: gml@gallantt.com
 Website - www.gallantt.com



TAX INVOICE

DUPLICATE [EXCISE] FOR TRANSPROTER

LST TIN : 24010300329 DT : 14-10-05
 CST TIN : 24510300329 DT : 14-10-05
 PAN : AACCG2934J
 ECC NO. : AACCG2934JXM001
 RANGE : BHACHAU - III
 DIVISION : BHACHAU
 COMMISSIONERATE : GANDHIDHAM

REGISTRED OFFICE
 222 & 223, 1, CROOKED LANE ,
 KOLKATTA - 700 069
 CIN No. : L27109WB2005PLC101553

DELIVERY CHALLAN CUM INVOICE FOR
 REMOVAL OF EXCISABLE GOODS FROM
 FACTORY / WAREHOUSE UNDER RULES 8
 & 11

INVOICE NO : 000012
 DATE : 01/04/17
 Time of Prepration : 12.27
 Time of Removal : 12.35

BUYERS NAME & ADDRESS :
HINDUSTAN OILS INDUSTRIES
 Shed No. 282 A-I-Type,
 Sector-iii
 Kandla Sez
GANDHIDHAM - 370230

LST TIN : 24011007092
 CST TIN : 24511007092
 ECC NO. :
 PAN : AAHFH0327G
 P.O.NO. :
 DATE :

CONSIGNEES NAME & ADDRESS :
HINDUSTAN OILS INDUSTRIES
 Shed No. 282 A-I-Type,
 Sector-iii
GANDHIDHAM - 370230

LST TIN : 24011007092
 CST TIN : 24511007092
 ECC NO. :
 PAN : AAHFH0327G

DESCRIPTION OF GOODS

USED OIL

QTY (MT)	RATE (MT)	VALUE ₹
126.000	5.00	630.00
Total		630.00

Goods admitted Into Zone on
 the basis of unit's declaration
 without Physical examination.

Preventive Officer

Special Economic Zone

Tariff Heading : 27101980

ED Amount In Words: Seventy Eight And Paise Seventy Five Only

EXCISE DUTY 12.5% (12.5%) 78.75

Cess Amount In Words: Nil

ROUNDING OFF 0.25

S & H Cess Amount In Words: Nil

Total Amount In Words: Seven Hundred Nine Only

TOTAL AMOUNT ₹ 709.00

Transporter : COMPANY VEHICLE

GROSS WEIGHT : 126.000

L.R. No. : L.R. Date :

TARE WEIGHT : 0.000

Vehicle No. : GJ12AU-2962

NET WEIGHT : 126.000

DECLARATION

Certified that the particulars given above are true & correct and the amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer.

VAT EXCEMPTED FOR SUPPLY TO SEZ UNIT GP NO. 1 DT.01.04.17

PAYMENT TERMS :

Immediate

CONSIGNMENT RECEIVED IN GOOD
 CONDITION

RECEIVER'S SIGN WITH STAMP

PREPARED BY


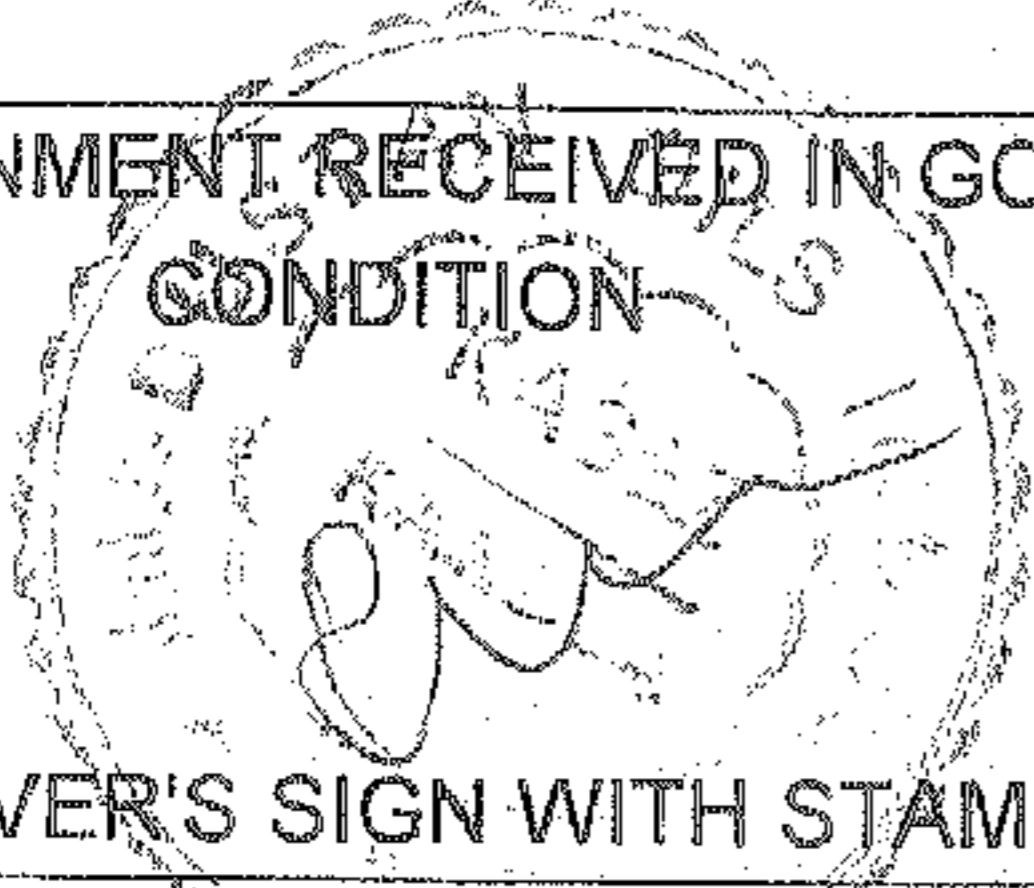
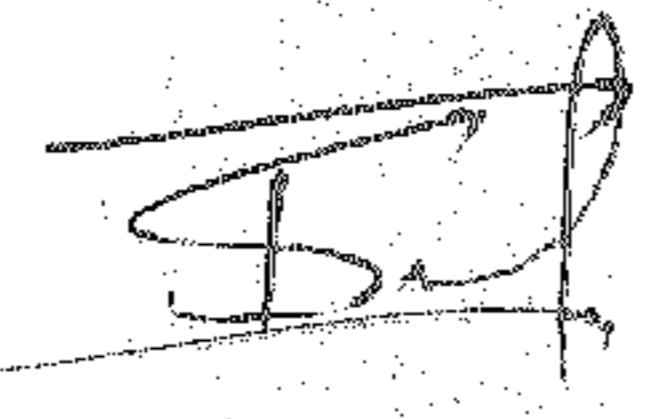

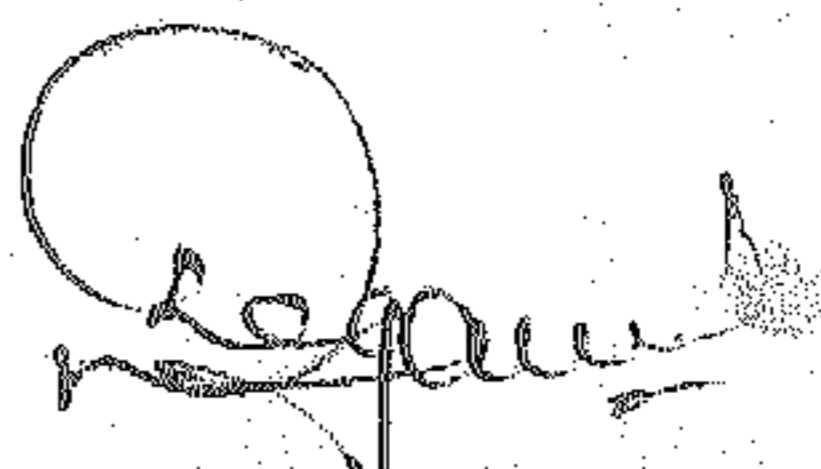
CHECKED BY

FOR GALLANTT METAL LIMITED

AUTHORISED SIGNATORY

BANK - STATE BANK OF INDIA, A/C. NO. 30015284131, IFSC - SBIN0004152, CAG BRANCH, AHMEDABAD

Correspondence Address : Ward 10BC, Plot No.123, Ground Floor, Gandhidman, (Kutch) Gujarat Tel : (02836) 228164 Fax 235787

GALLANTT METAL LIMITED Village : SAMAKHYARI Taluka : Bhachu Dist : Kutch , GUJARAT - 370 150 Phone: -(02837) 283557 Email: gml@gallantt.com Website - www.gallantt.com		TAX INVOICE		
		DUPLICATE [EXCISE] FOR TRANSPROTHER		
		LST TIN : 24010300329 DT : 14-10-05	CST TIN : 24510300329 DT : 14-10-05	
		PAN : AACCG2934J	ECC NO. : AACCG2934JXM001	
REGISTERED OFFICE 222 & 223, 1, CROOKED LANE , KOLKATTA - 700 069 CIN No. : L27109WB2005PLC101553		DELIVERY CHALLAN CUM INVOICE FOR REMOVAL OF EXCISABLE GOODS FROM FACTORY / WAREHOUSE UNDER RULES 8 & 11		
		INVOICE NO : 014677 DATE : 02/03/17 Time of Prepration : 10.44 Time of Removal : 11.15		
BUYERS NAME & ADDRESS : HINDUSTAN OILS INDUSTRIES Shed No. 282 A-I-Type, Sector-iii Kandla Sez GANDHIDHAM - 370230		LST TIN : 24011007092 CST TIN : 24511007092 ECC NO. : PAN : AAHFH0327G P.O.NO. : DATE :		
CONSIGNEES NAME & ADDRESS : HINDUSTAN OILS INDUSTRIES Shed No. 282 A-I-Type, Sector-iii GANDHIDHAM - 370230		LST TIN : 24011007092 CST TIN : 24511007092 ECC NO : PAN : AAHFH0327G		
DESCRIPTION OF GOODS		QTY.(MT)	TATE (MT)	VALUE ₹
USED OIL		126.000	75.00	630.00
Total		126.000		630.00
Tariff Heading : 27101980		ED Amount In Words: Seventy Eight And Paise Seventy Five Only		EXCISE DUTY 12.5% (12.5%) : 78.75 ROUNDING OFF : 0.25
Cess Amount In Words: Nil		S & H Cess Amount In Words: Nil		TOTAL AMOUNT ₹ 709.00 GROSS WEIGHT : 0.000 TARE WEIGHT : 126.000 NET WEIGHT : 126.000
Total Amount In Words: Seven Hundred Nine Only		Goods admitted into zone on the basis of unit's declaration without physical examination. <i>Preventive Officer</i> Kandla Special Economic Zone		
DECLARATION Certified that the particulars given above are true & correct and the amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer.		VAT EXCEMPTED FOR SUPPLY TO SEZ UNIT VIDE GP NO 231 DT. 02.03.17 PAYMENT TERMS : Immediate		
CONSIGNMENT RECEIVED IN GOOD CONDITION  RECEIVER'S SIGN WITH STAMP		 PREPARED BY	 CHECKED BY	FOR GALLANTT METAL LIMITED  AUTHORISED SIGNATORY

BANK - STATE BANK OF INDIA, A/C. NO. 30015284131, IFSC - SBIN0004152, CAG BRANCH, AHMEDABAD
Correspondence Address : Ward 10BC, Plot No.123, Ground Floor, Gandhidham, (Kutch) Gujarat Tel : (02836) 228164 Fax 235787

GALLANTT METAL LIMITED Village : SAMAKHYARI Taluka : Bhachu Dist : Kutch , GUJARAT - 370 150 Phone: -(02837) 283557 Email: gml@gallantt.com Website - www.gallantt.com		GALANTT		TAX INVOICE	
				DUPLICATE [EXCISE] FOR TRANSPROTTER	
REGISTRED OFFICE 222 & 223, 1, CROOKED LANE , KOLKATTA - 700 069 CIN No. : L27109WB2005PLC101553		DELIVERY CHALLAN CUM INVOICE FOR REMOVAL OF EXCISABLE GOODS FROM FACTORY / WAREHOUSE UNDER RULES 8 & 11		LST TIN : 24010300329 DT : 14-10-05 CST TIN : 24510300329 DT : 14-10-05 PAN : AACCG2934J ECC NO. : AACCG2934JXM001 RANGE : BHACHAU - III DIVISION : BHACHAU COMMISSIONERATE : GANDHIDHAM	INVOICE NO : 013194 DATE : 01/02/17 Time of Prepration : 9.52 Time of Removal : 10.30
BUYERS NAME & ADDRESS : HINDUSTAN OILS INDUSTRIES Shed No. 282 A-I-Type, Sector-iii Kandla Sez GANDHIDHAM - 370230				LST TIN : 24011007092 CST TIN : 24511007092 ECC NO. : PAN : AAHFH0327G P.O.NO. : DATE :	
CONSIGNEES NAME & ADDRESS : HINDUSTAN OILS INDUSTRIES Shed No. 282 A-I-Type, Sector-iii GANDHIDHAM - 370230				LST TIN : 24011007092 CST TIN : 24511007092 ECC NO : PAN : AAHFH0327G	
DESCRIPTION OF GOODS		QTY (MT)	RATE (MT)	VALUE ₹	
USED OIL		126.000	5.00	630.00	
Total		126.000		630.00	
Tariff Heading : 27101980					
ED Amount In Words: Seventy Eight And Paise Seventy Five Only		EXCISE DUTY 12.5% (12.5%)		78.75	
Cess Amount In Words: Nil		ROUNDING OFF		0.25	
S & H Cess Amount In Words: Nil		Goods admitted into Zone on the basis of unit's declaration without Physical examination.			
Total Amount In Words: Seven Hundred Nine Only		Preventive Officer Kandla Special Economic Zone			
Transporter : COMPANY CEHICLE		TOTAL AMOUNT		₹ 709.00	
L.R. No. : L.R. Date :		GROSS WEIGHT : 0.000			
Vehicle No. : GJ12AU-2962		TARE WEIGHT : 126.000			
		NET WEIGHT : 126.000			
DECLARATION Certified that the particulars given above are true & correct and the amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer.		VAT EXEMPTED FOR SUPPLY TO SEZ UNIT			
		PAYMENT TERMS : Immediate			
CONSIGNMENT RECEIVED IN GOOD CONDITION		PREPARED BY		FOR GALLANTT METAL LIMITED	
RECEIVER'S SIGN WITH STAMP		CHECKED BY		AUTHORISED SIGNATORY	

BANK - STATE BANK OF INDIA, A/C. NO. 30015284131, IFSC - SBIN0004152, CAG BRANCH, AHMEDABAD
Correspondence Address : Ward 10BC, Plot No.123, Ground Floor, Gandhighrnan, (Kutch) Gujarat Tel : (02836) 228164 Fax 235787

ANNEXURE 2

WATER CONSUMPTION REPORT

(Consolidated for whole Plant)

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008

MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009


MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016

Period	Water Consumption in Plant (KL)	Water Consumption in Domestic, Green Belt, Gardening and in Dust Suppression etc (KL)	Waste Water Generation (KL)
From October - 16 to March -17	160115	57324	11598

Water quantity approved details

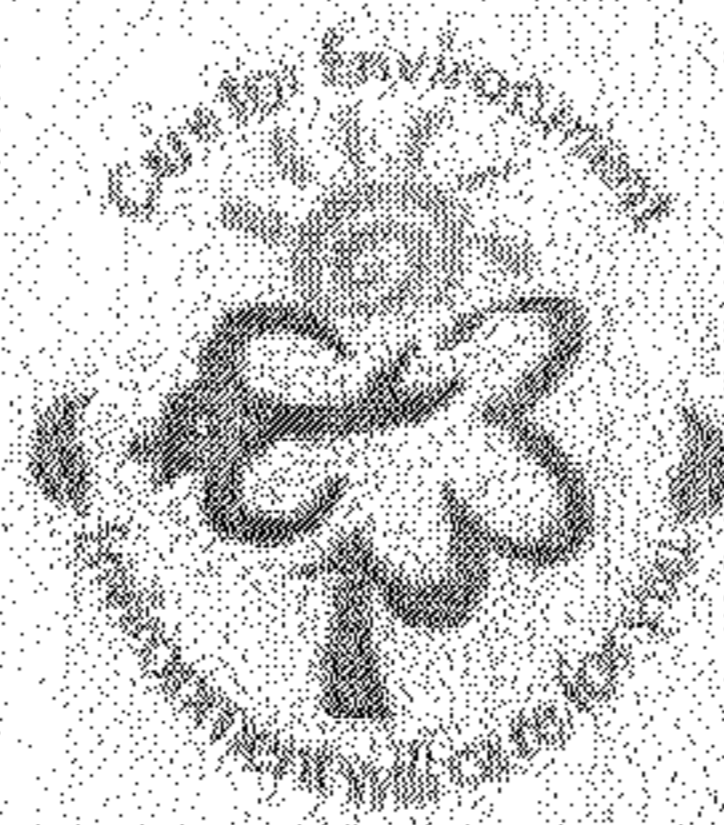
PERMISSION DETAILS	QUANTITY APPROVED IN KLD
NOC NO. : FT-204/17333 VIDE DATED 27 JUNE 2005 CC&A No: 8228 VIDE DATED 06 OCT 2006 (EC NOT APPLICABLE)	450
EC NO 13011/37/2007-IA.II(T) DATED 28.09.2007	363
EC NO J-11011/231/2009/IA.II(I) DATED 08.06.2009	255
EC NoJ-11011/52/2013-IA II(I) DATED 19.05.16	300
	1368

For GALLANTY METAL LTD.


Authorized Signatory

ANNEXURE 1 STACK MONITORING ANALYSIS REPORT

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph. : +91 281 2360695 * E-mail : royaleenvironment@raja.com * admin@royalconsultancy.com

Ref. No. : 084/03/2016-17

Date : 29/03/2017

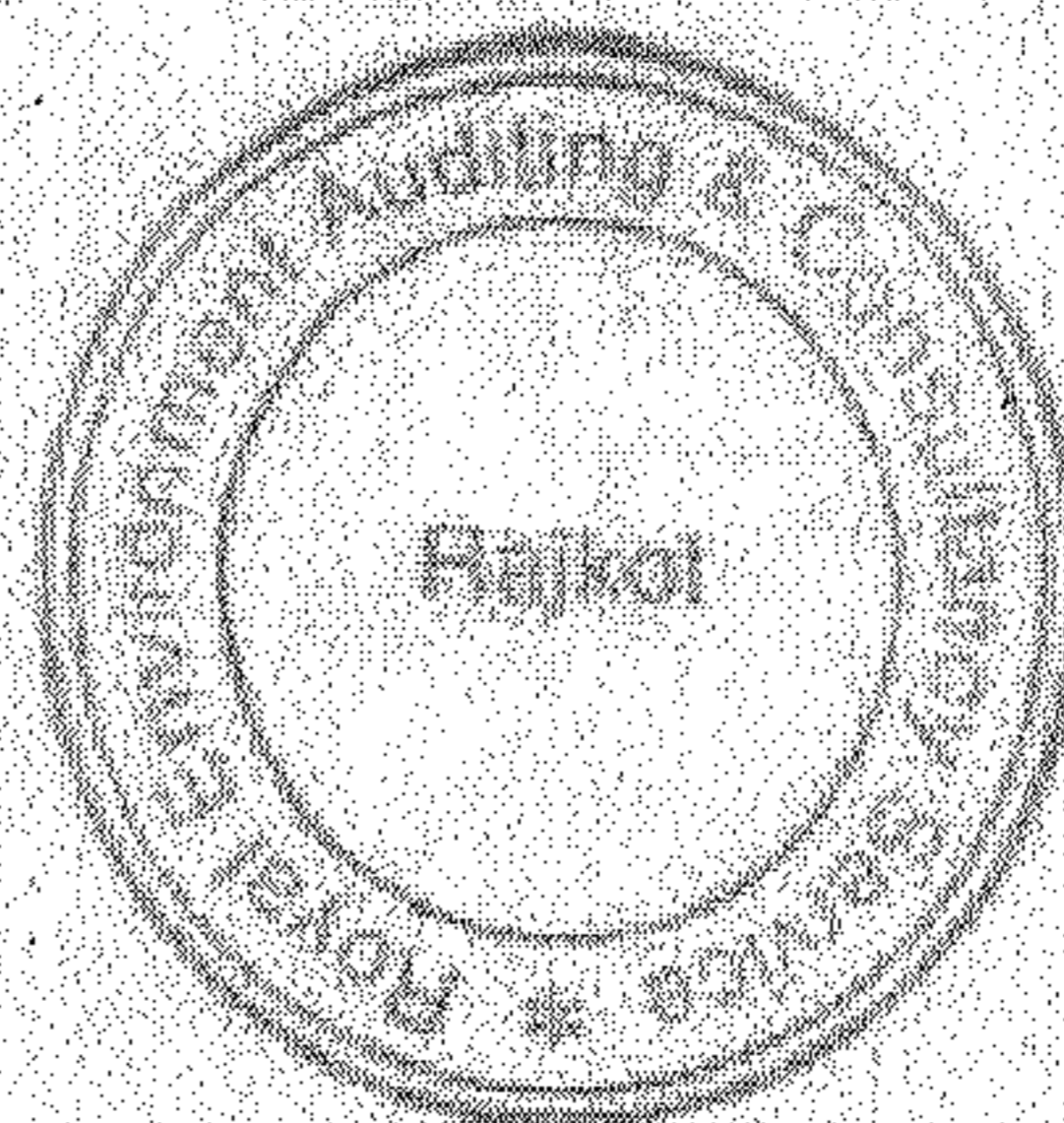
REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallant Metal Limited
Survey No. 175/1,
Near toll gate,
Village : Surnakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

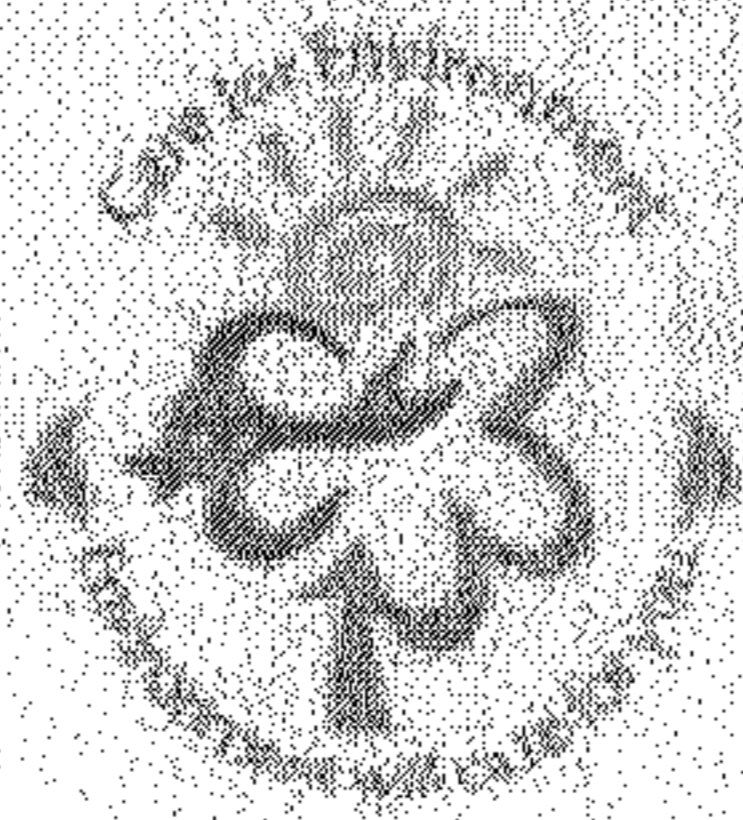
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	24-03-2017
02.	Time of sampling	Hr	10.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	35
08.	Stack Temperature	Degree Centi.	116
09.	Average Velocity of Flue Gases	M/Sec.	8.6
10.	Isokinetic flow rate for P.M. Sampling	LPM	18
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	59
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	19.4
16.	Permissible Limit for NO _x	ppm	50
17.	Measured Concentration of NO _x	ppm	23.6
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	95

*Permissible limit not specified in EC copy as well as in GPCB CC&A
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

Royal Environment Auditing & Consultancy Service



Arvind
Analyst



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PH: +91 201 2300095 * E-mail: royaleenvironment@live.com * admin@royalconsultancy.com

Ref. No. : 686/03/2016-17

Date : 29/03/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallantt Metal Limited
Survey No. 173/1,
Near toll gate,
Village : Samakhiali,
Taluka : Bhachau,
Kutch, Gujarat.

Test Method : As per IS Standards - 11255 - 1/2/3/7

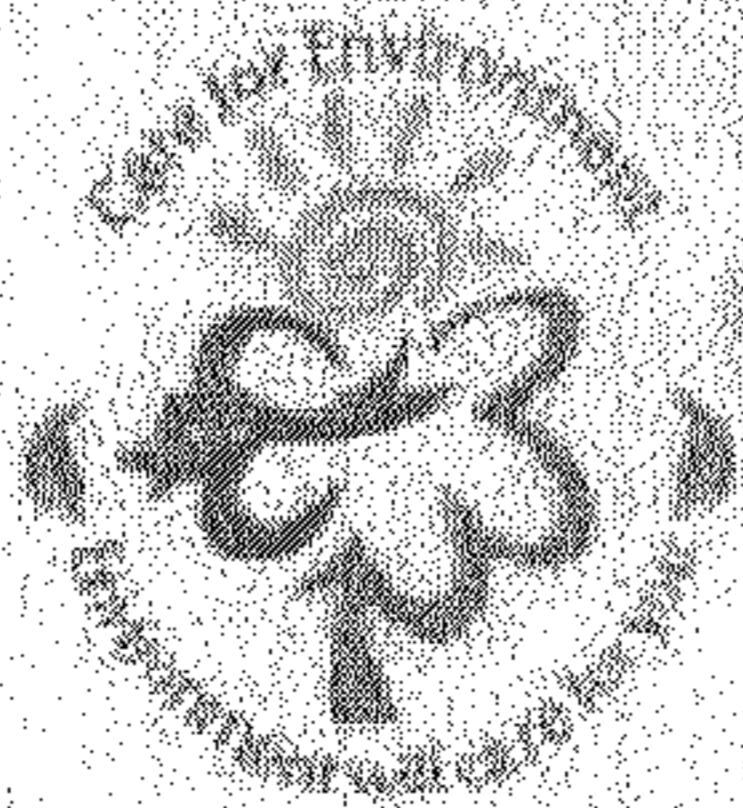
Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	24-03-2017	24-03-2017	24-03-2017	Not Running
2	Time of sampling	Hr	11.00	12.00	14.10	During Visit
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln - 3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recouperatur & ESP	Recouperatur & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48	30
7	Stack Temperature	Degree Centi	116	113	79	---
8	Ambient Temperature	Degree Centi	38	36	33	---
9	Average Velocity of Flue Gases	M/Sec	8.9	8.5	8.2	---
10	Isokinetic flow rate for P.M. Sampling	LPM	18	19	18	Not Running
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	During Visit
12	Permissible Limit for P.M.	mg/Nm3	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm3	61	58	29	---
14	Permissible Limit for SO2	ppm	100	100	100	100
15	Measured Concentration of SO2	ppm	19.5	17.3	18.4	---
16	Permissible Limit for Nox	ppm	50	50	50	50
17	Measured Concentration of Nox	ppm	21.6	21.8	19.5	---
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	55	43.0	85	---

*Permissible limit not specified in EC copy as well as in GPCB CC&A.
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

Royal Environment Auditing & Consultancy Service



Meelesh
Analyst



Royal

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Ph: +91 261 2360635 * E-mail: royaleenvironment@live.com * admin@royalconsultancy.com

Ref No: 080/02/2016-17

Date: 28/02/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company: Gallant Metal Limited
Survey No. 175/1,
Near toll gate,
Village: Samakhya,
Taluka: Bhachau,
Kutch, Gujarat.

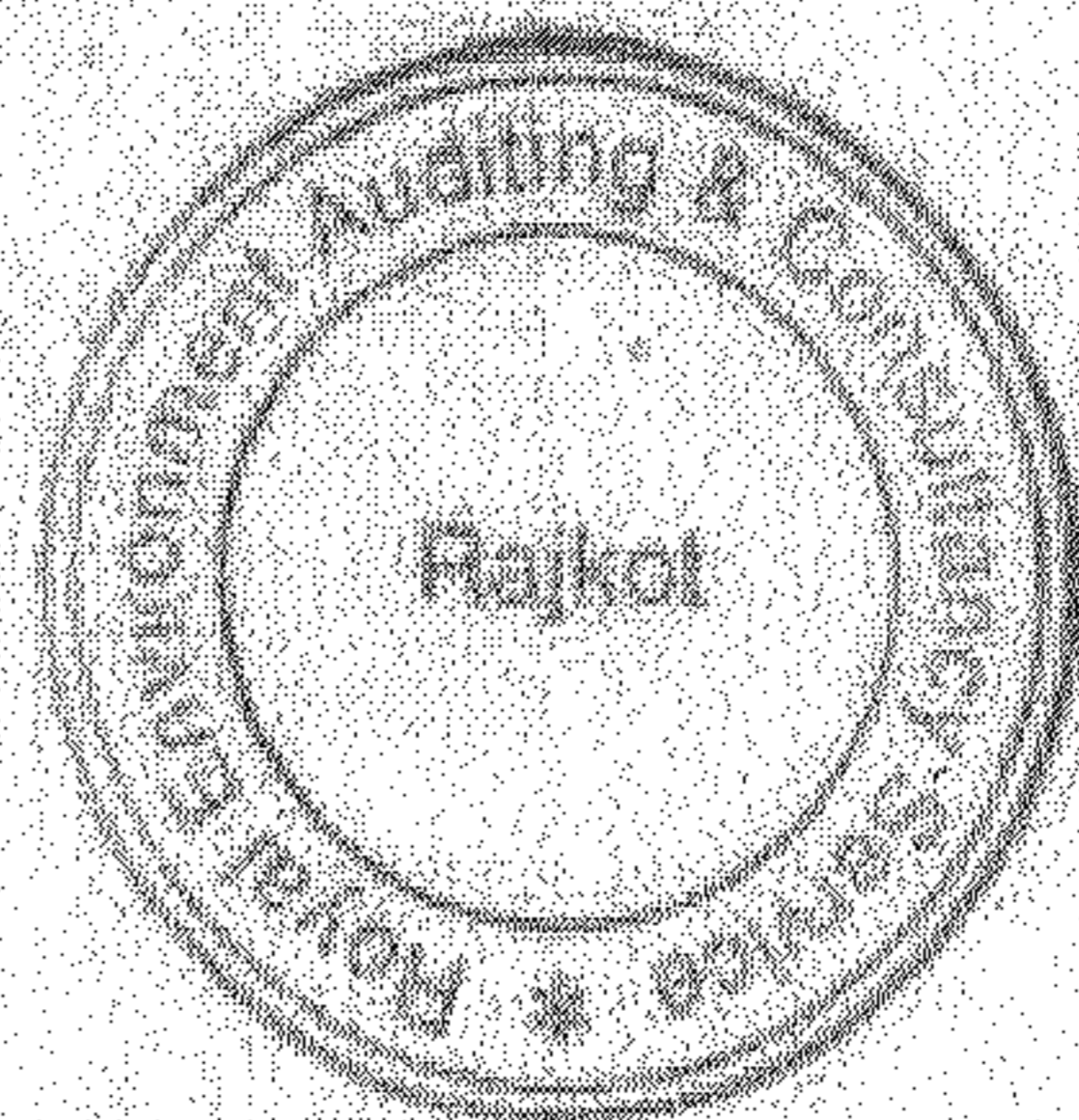
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	15-02-2017
02.	Time of sampling	Hr	11:00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	32
08.	Stack Temperature	Degree Centi.	114
09.	Average Velocity of Flue Gases	M/Sec.	8.3
10.	Isokinetic flow rate for P.M. Sampling	LPM	19
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	37
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	18.9
16.	Permissible Limit for NO _x	ppm	50
17.	Measured Concentration of NO _x	ppm	24.6
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	91

*Permissible limit not specified in EC copy as well as in GPCB CC&A

Instruments used: Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On: 12/09/2017

Royal Environment Auditing & Consultancy Service



meekah
Analyst

ANNEXURE 3

ASH GENERATION REPORT

(Consolidated for whole Plant)

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008

MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009

MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016

Details of Flyash generation and disposal

Period	TOTAL FLY ASH GENERATION (MT)	FLY ASH SENT TO TSDF SITE (MT)	FLY ASH SENT FOR BRICK MANUFACTURING (MT)
From Oct-2016 to March-2017	17129.890	7050.480	9995.510

For GALLANTT METAL LTD.


Authorised Signatory

ANNEXURE 4
AMBIENT AIR QUALITY
ANALYSIS REPORT

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 672/01/2016-17

Date : 30/01/2017

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Gallantt Metal Limited**

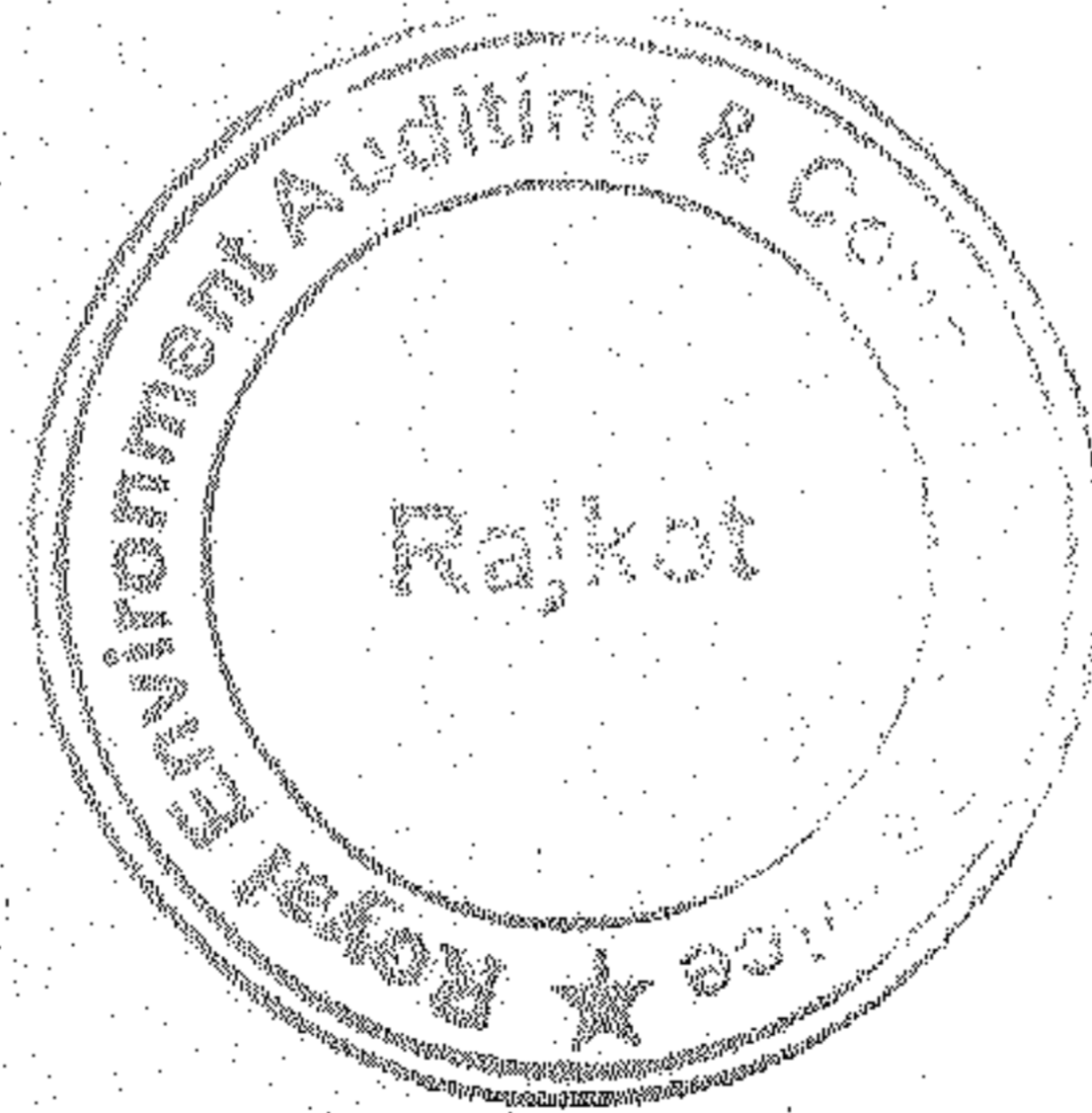
Survey No. 175/1,
Near toll gate,
Village : Samakhyali,
Taluka : Bhachau,
Kutch, Gujarat.

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2
01.	Location of Sampling	---	Officer Colony	Main Security Gate
02.	Date of sampling	---	20-01-2017	20-01-2017
03.	Time of sampling	Hr	8.20	8.30
04.	Duration of Sampling	Min.	1440	1440
05.	Average Wind Speed	Km/Hr	5 to 15	5 to 15
06.	Average flow rate during sampling	m ³ /Hr	1.1	1.0
07.	Average flow rate for Gas sampling	LPM	0.2	0.2
08.	Permissible Limits of PM 2.5	µg/m ³	60	60
09.	Measured Concentration of PM 2.5	µg/m ³	39	36
10.	Permissible Limits of PM 10	µg/m ³	100	100
11.	Measured Concentration of PM 10	µg/m ³	62	58
14.	Permissible Limits of SOx	µg/m ³	80	80
15.	Measured Concentration of SOx	µg/m ³	10.3	8.9
16.	Permissible Limits of NOx	µg/m ³	80	80
17.	Measured Concentration of NOx	µg/m ³	17.8	19.3

Instrument used : 1) Ecotech make (RDS), Model No. APM - 217 BL, Gaseous Sampling Kit No. AAS 190

2) Ecotech make 2 Nos. PM 2.5 ,

Calibration due on : 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

P. P. P.
Analyst



Royal

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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 673/01/2016-17

Date : 30/01/2017

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

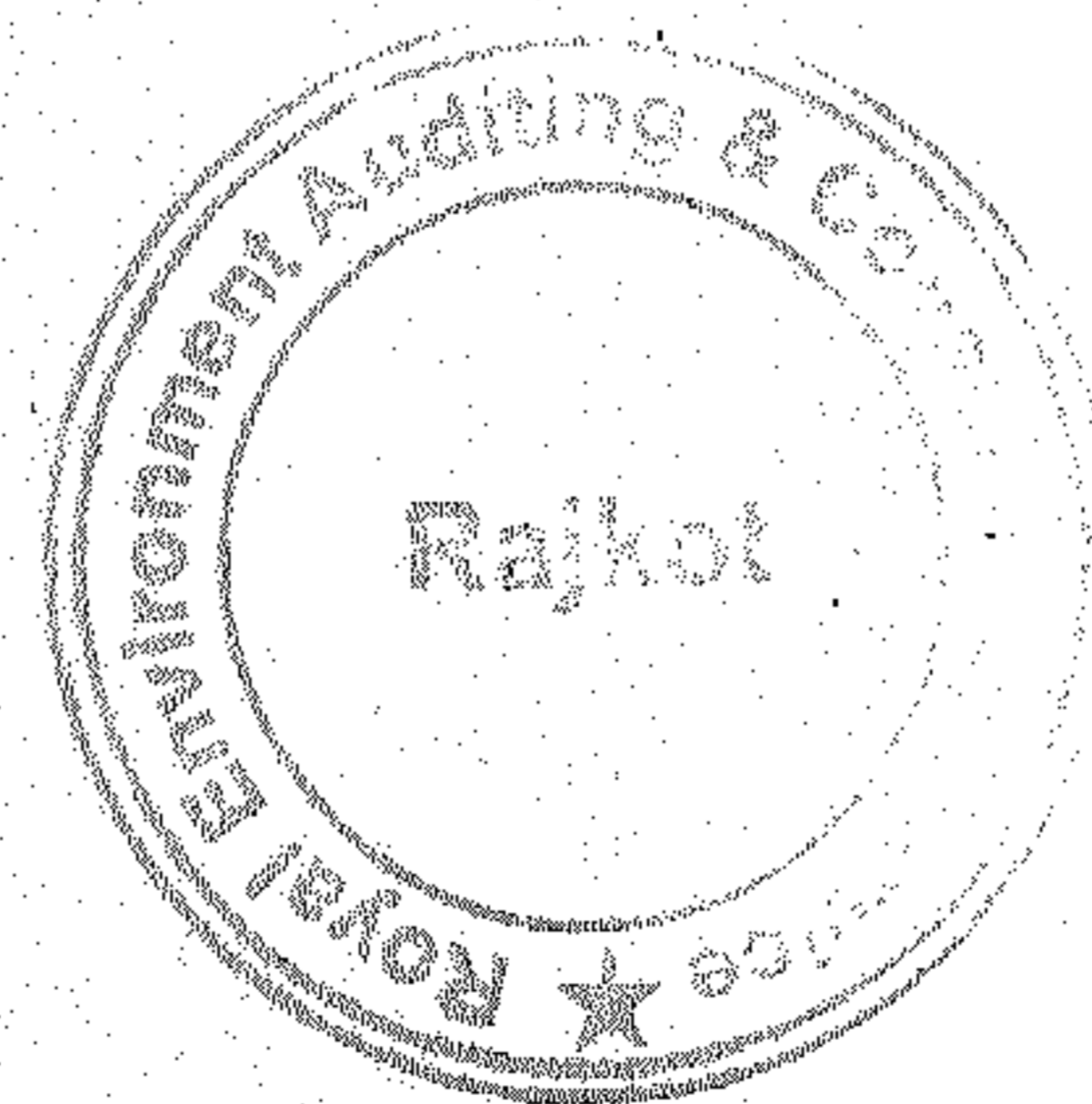
Kutch, Gujarat.

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4
01.	Location of Sampling	---	B/h. Kiln 1 & 2	Nr. Furnace Area
02.	Date of sampling	---	21-01-2017	21-01-2017
03.	Time of sampling	Hr	8.45	9.05
04.	Duration of Sampling	Min.	1440	1440
05.	Average Wind Speed	Km/Hr	4 to 15	4 to 15
06.	Average flow rate during sampling	m ³ /Hr	1.1	1.1
07.	Average flow rate for Gas sampling	LPM	0.2	0.2
08.	Permissible Limits of PM 2.5	µg/m ³	60	60
09.	Measured Concentration of PM 2.5	µg/m ³	29	32
10.	Permissible Limits of PM 10	µg/m ³	100	100
11.	Measured Concentration of PM 10	µg/m ³	57	64
14.	Permissible Limits of SOx	µg/m ³	80	80
15.	Measured Concentration of SOx	µg/m ³	15.8	16.3
16.	Permissible Limits of NOx	µg/m ³	80	80
17.	Measured Concentration of NOx	µg/m ³	18.3	20.5

Instrument used : 1) Ecotech make (RDS), Model No. APM - 217 BL, Gaseous Sampling Kit No. AAS 190

2) Ecotech make 2 Nos. PM 2.5 ,

Calibration due on : 1) 15/05/2017



Royal Environment Auditing & Consultancy Service

M. M. M. M.
Analyst



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Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 632/10/2016-17

Date : 03/11/2016

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

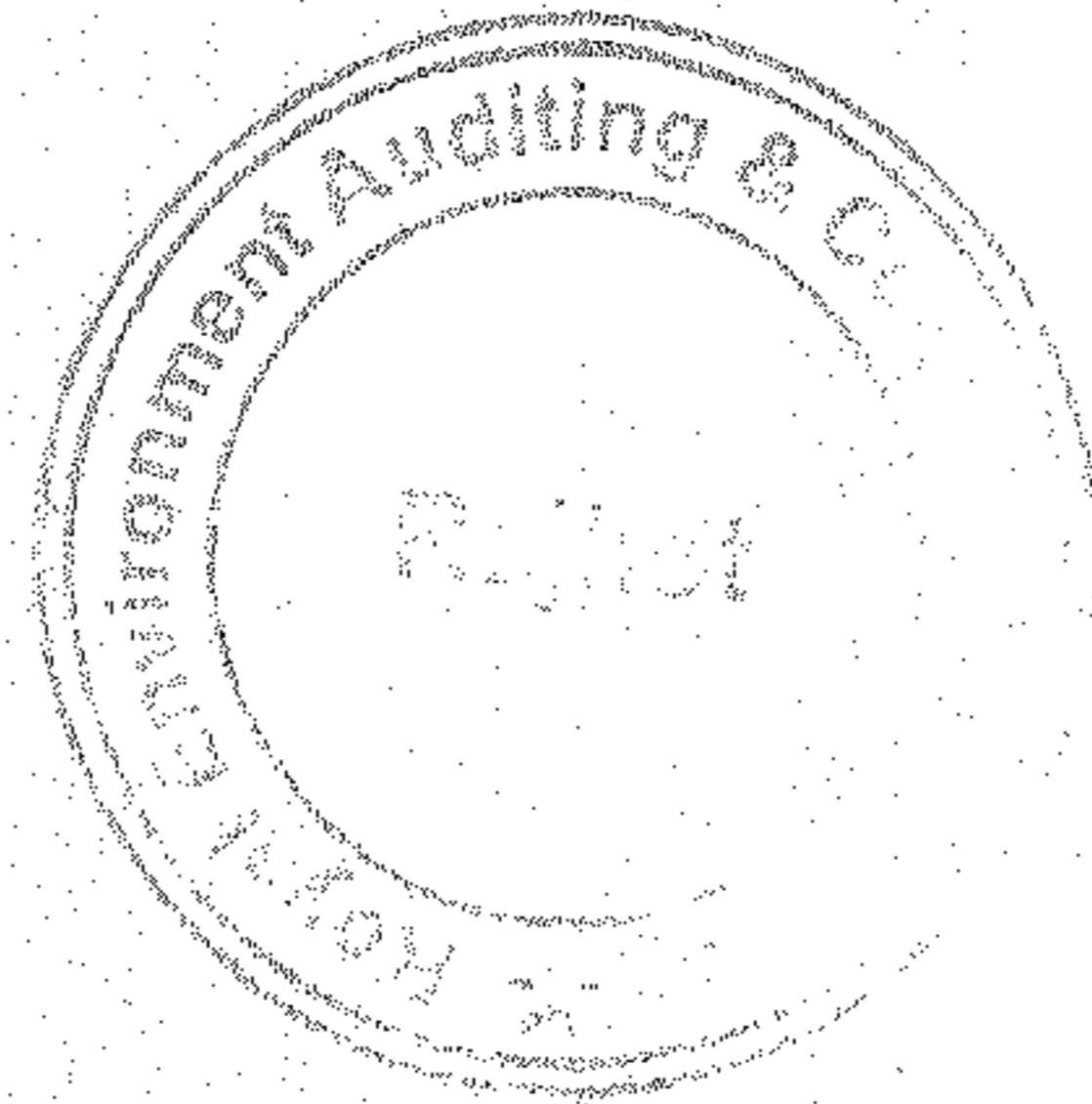
Sr. No.	Particulars	Unit	Location No. 1	Location No. 2
01.	Location of Sampling	---	Officer Colony	Main Security Gate
02.	Date of sampling	---	10-10-2016	10-10-2016
03.	Time of sampling	Hr	8.25	8.35
04.	Duration of Sampling	Min.	1440	1440
05.	Average Wind Speed	Km/Hr	3 to 15	3 to 15
06.	Average flow rate during sampling	m ³ /Hr	1.0	1.1
07.	Average flow rate for Gas sampling	LPM	0.2	0.2
08.	Permissible Limits of PM 2.5	µg/m ³	60	60
09.	Measured Concentration of PM 2.5	µg/m ³	35	33
10.	Permissible Limits of PM 10	µg/m ³	100	100
11.	Measured Concentration of PM 10	µg/m ³	59	55
14.	Permissible Limits of SOx	µg/m ³	80	80
15.	Measured Concentration of SOx	µg/m ³	9.1	10.8
16.	Permissible Limits of NOx	µg/m ³	80	80
17.	Measured Concentration of NOx	µg/m ³	18.3	20.5

Instrument used : 1) Ecotech make (RDS), Model No. APM - 217 BL, Gaseous Sampling Kit No. AAS 190

2) Ecotech make 2 Nos. PM 2.5 ,

Calibration due on : 1) 15/05/2017

Royal Environment Auditing & Consultancy Service



Mukher
Analyst



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Ref. No. : 633/10/2016-17

Date : 03/11/2016

REPORT OF AMBIENT AIR QUALITY MONITORING

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

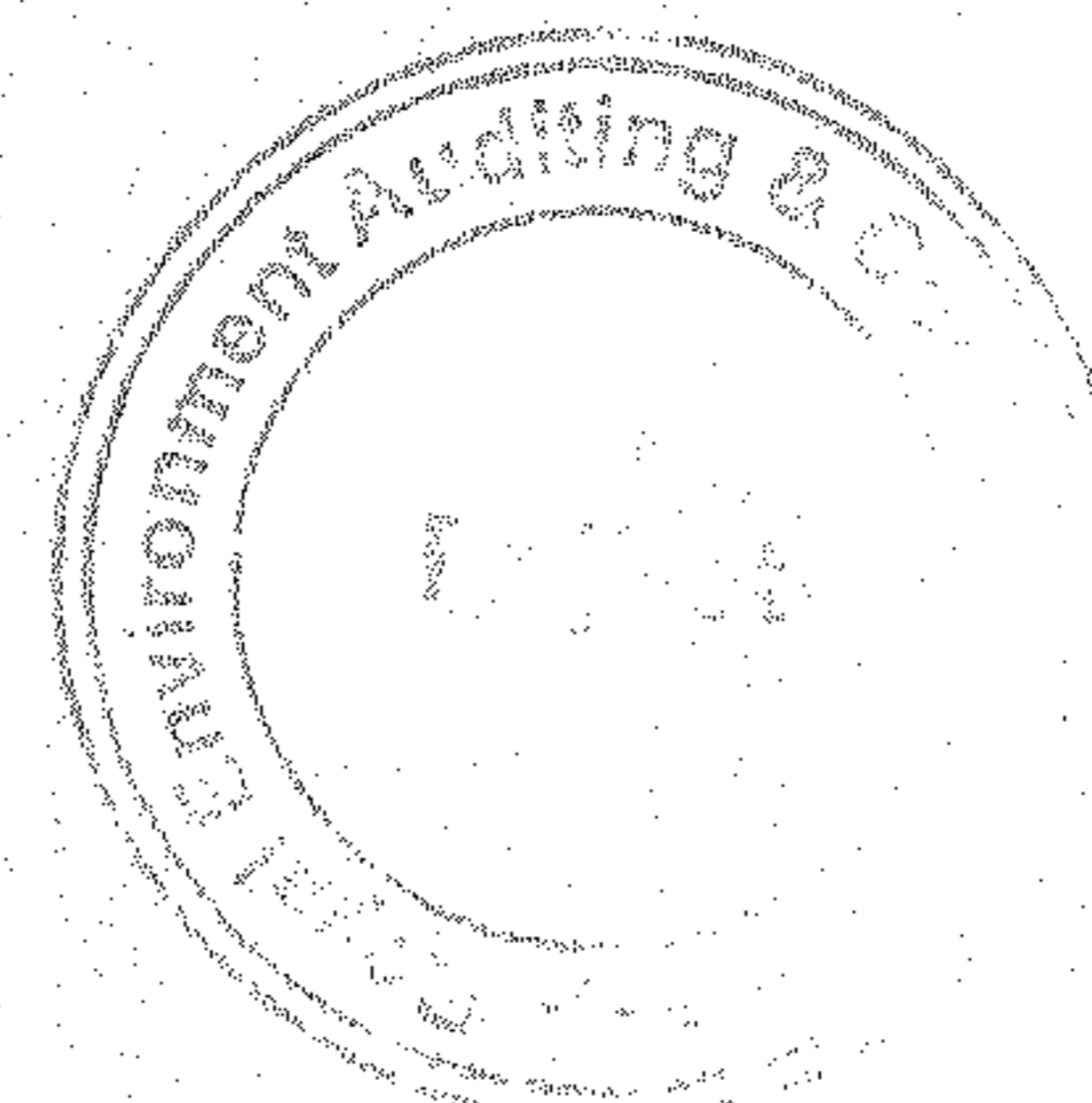
Sr. No.	Particulars	Unit	Location No. 3	Location No. 4
01.	Location of Sampling	---	B/h. Kiln 1 & 2	Nr. Furnace Area
02.	Date of sampling	---	11-10-2016	11-10-2016
03.	Time of sampling	Hr	8.50	9.00
04.	Duration of Sampling	Min.	1440	1440
05.	Average Wind Speed	Km/Hr	3 to 12	3 to 12
06.	Average flow rate during sampling	m ³ /Hr	1.0	1.0
07.	Average flow rate for Gas sampling	LPM	0.2	0.2
08.	Permissible Limits of PM 2.5	µg/m ³	60	60
09.	Measured Concentration of PM 2.5	µg/m ³	34	36
10.	Permissible Limits of PM 10	µg/m ³	100	100
11.	Measured Concentration of PM 10	µg/m ³	53	57
14.	Permissible Limits of SOx	µg/m ³	80	80
15.	Measured Concentration of SOx	µg/m ³	16.2	13.8
16.	Permissible Limits of NOx	µg/m ³	80	80
17.	Measured Concentration of NOx	µg/m ³	17.5	19.2

Instrument used : 1) Ecotech make (RDS), Model No. APM - 217 BL, Gaseous Sampling Kit No. AAS 190

2) Ecotech make 2 Nos. PM 2.5 ,

Calibration due on : 1) 15/05/2017

Royal Environment Auditing & Consultancy Service



Mukesh
Analyst

ANNEXURE 5

NOISE MONITORING

ANALYSIS REPORT

MOEF letter No:- J-13011/37/2007-IA.II(T) Dated 28th Sept,2008
MOEF letter No:- J-11011/231/2009-IA II(I) Dated 8th June,2009
MOEF letter No:- J-11011/52/2013-IA II(I) Dated 19th May, 2016



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Ph.: +91 281 2360695 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 674/01/2016-17

Date : 30/01/2017

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

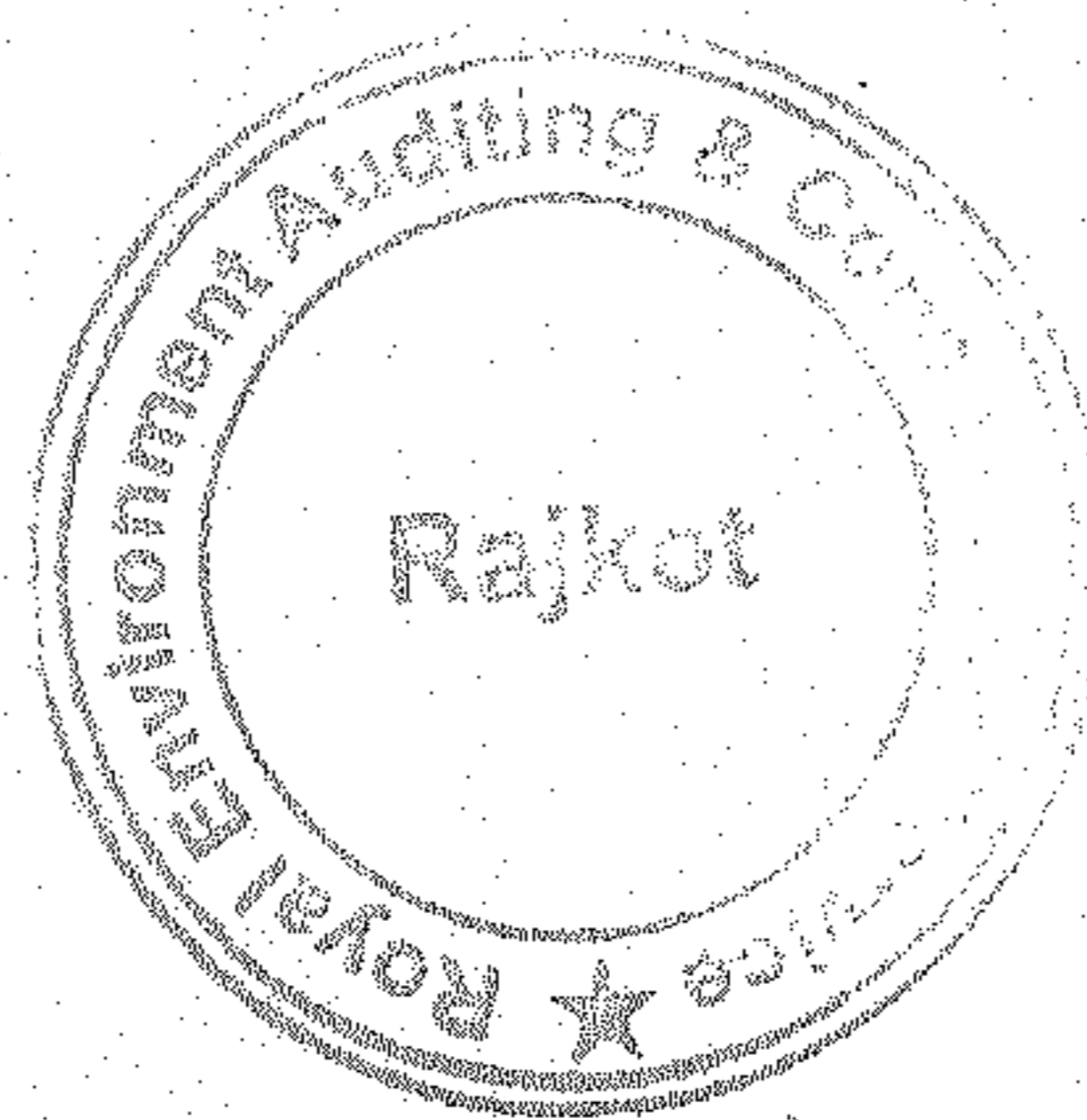
Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 6.00 AM - 10.00 PM	Night Time 10.00 PM - 6.00 AM
	Date of sampling	20-01-2017	20-01-2017
	Time of sampling		
	Permissible Limits	75.0	70.0
01.	Near Main Gate	68.3	62.4
02.	Rolling Mill Area	73.4	68.9
03.	Induction Furnace	72.1	67.3
04.	Reheating Furnace	73.3	63.5
05.	Rotary Kiln	72.7	65.5
06.	Power Plant	70.9	66.1

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Recalibration is Due On : 12/09/2017

Royal Environment Auditing & Consultancy Service



[Signature]
Analyst



Royal

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303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royalsenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 634/10/2016-17

Date : 03/11/2016

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : **Gallantt Metal Limited**

Survey No. 175/1,

Near toll gate,

Village : Samakhyali,

Taluka : Bhachau,

Kutch, Gujarat.

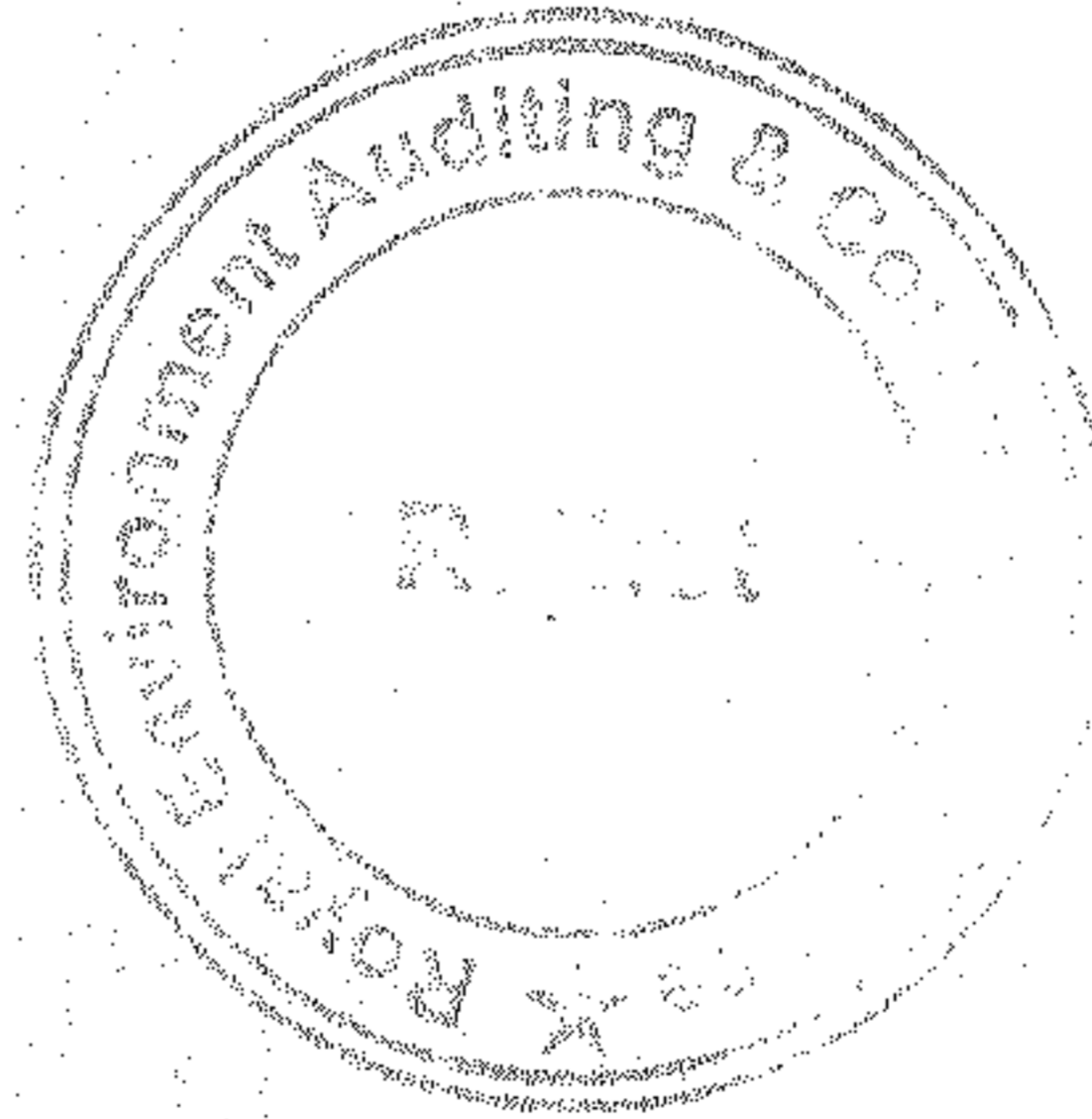
Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		11-10-2016	11-10-2016
	Date of sampling	11-10-2016	11-10-2016
	Time of sampling	Day Time 6.00 AM - 10.00 PM	Night Time 10.00 PM - 6.00 AM
	Permissible Limits	75.0	70.0
01.	Near Main Gate	67.5	64.2
02.	Rolling Mill Area	72.8	68.5
03.	Induction Furnace	70.3	64.5
04.	Reheating Furnace	72.3	61.7
05.	Rotary Kiln	73.2	63.1
06.	Power Plant	71.2	62.8

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Recalibration is Due On : 12/10/2016

Royal Environment Auditing & Consultancy Service



Murphy
Analyst



Royal

Environment Auditing & Consultancy Service

309-304, Shivaji-7, Bld. Bal Adalat, Gondal Road, RAJKOT - 360 002.

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Ref. No. : 682/02/2016-17

Date : 28/02/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallantt Metal Limited
Survey No. 175/L,
Near toll gate,
Village : Samakhiali,
Taluka : Bhachau,
Kutch, Gujarat.

Test Method : As per IS Standards - 11255-1/2/3/7

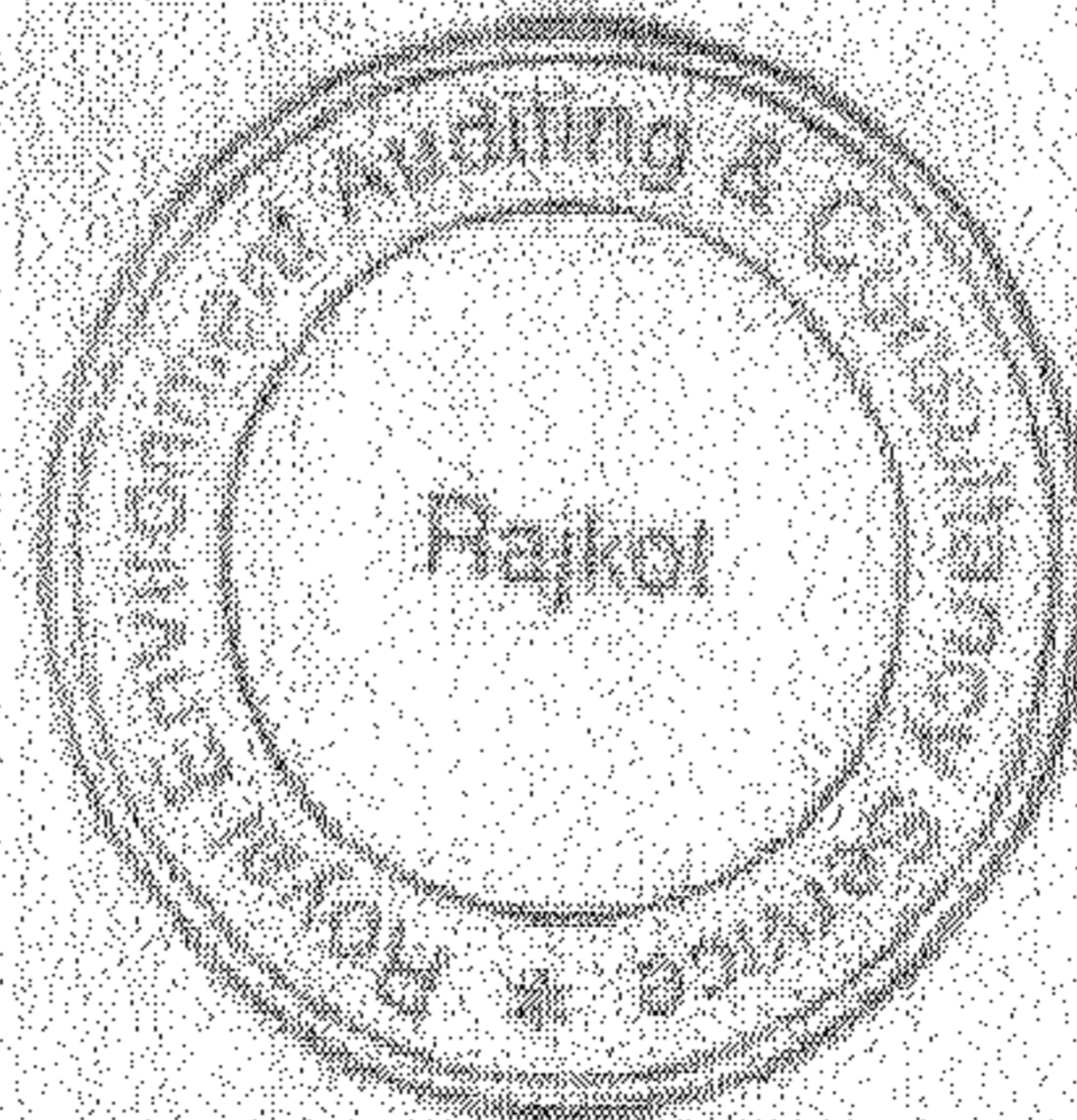
Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	15-02-2017	15-02-2017	15-02-2017	15-02-2017
2	Time of sampling	Hr	12.00	14.00	15.00	16.00
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln - 3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recooperatur & ESP	Recooperatur & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48	30
7	Stack Temperature	Degree Centi.	110	114	76	118
8	Ambient Temperature	Degree Centi.	33	34	32	32
9	Average Velocity of Flue Gases	M/Sec.	8.7	8.3	8.1	9.1
10	Isokinetic flow rate for P.M. Sampling	LPM	19	18	17	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm3	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm3	58	52	27	43
14	Permissible Limit for SO2	ppm	100	100	100	100
15	Measured Concentration of SO2	ppm	18.6	16.7	17.5	19.4
16	Permissible Limit for Nox	ppm	50	50	50	50
17	Measured Concentration of Nox	ppm	21.3	22.4	18.9	20.5
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	58	47.0	80	---

*Permissible limit not specified in EC copy as well as in GPCB CC&A

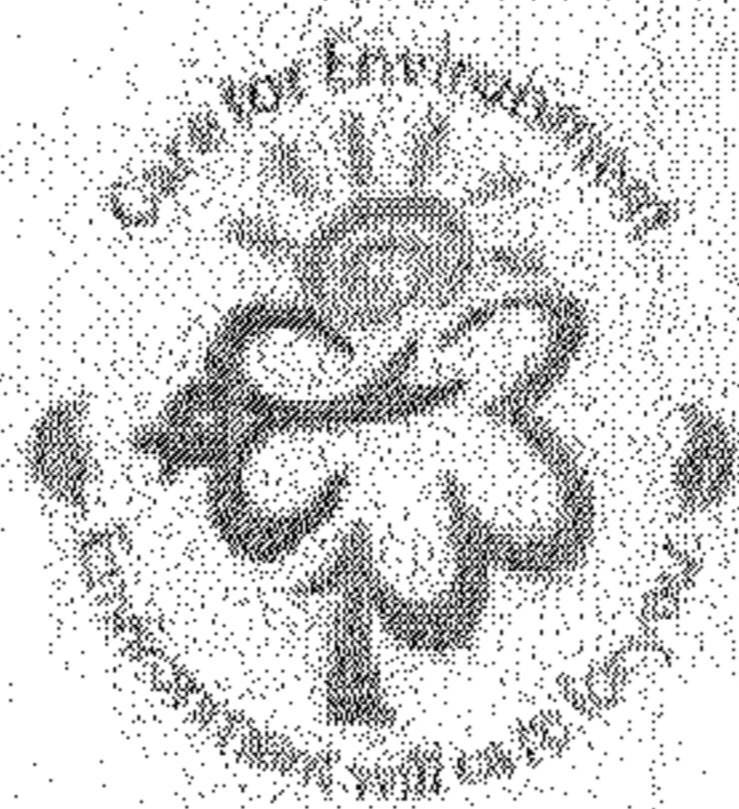
Instruments used - Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On : 12/09/2017

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Analyst



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Ref. No. : 663/01/2016-17

Date : 30/01/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallant Metal Limited

Survey No. : 175/1,

Near toll gate,

Village : Samakhiali,

Taluka : Bhachau,

Kutch, Gujarat.

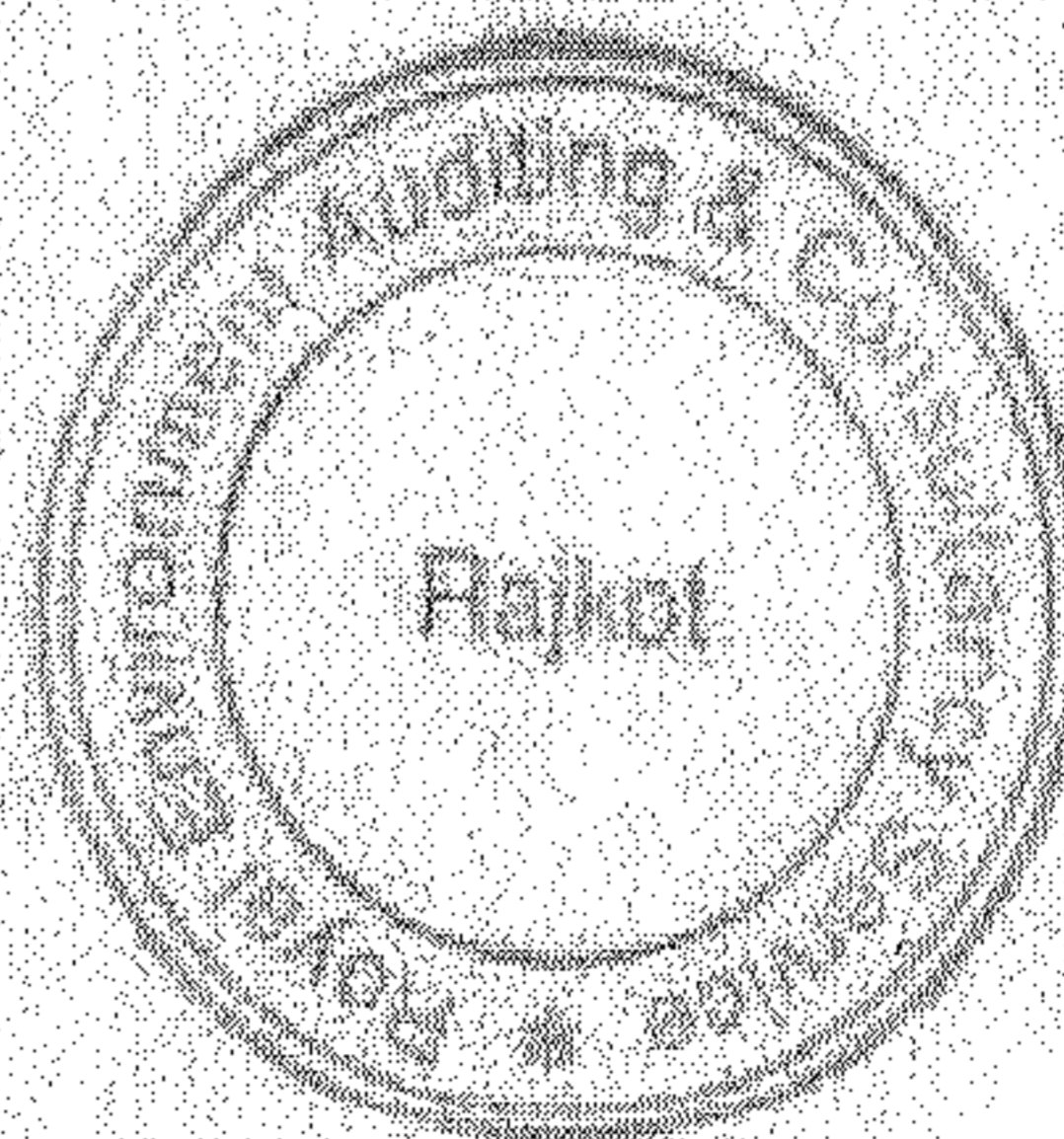
Sl. No.	Particulars	Unit	Stack - I
01.	Date of sampling	---	21-01-2017
02.	Time of sampling	Hr	10.20
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	28
08.	Stack Temperature	Degree Centi.	111
09.	Average Velocity of Flue Gases	M/Sec	8.5
10.	Isokinetic flow rate for P.M. Sampling	LPM	20
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	61
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	20.5
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	26.3
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	90

*Permissible limit not specified in EC copy as well as in GPCB CCRA

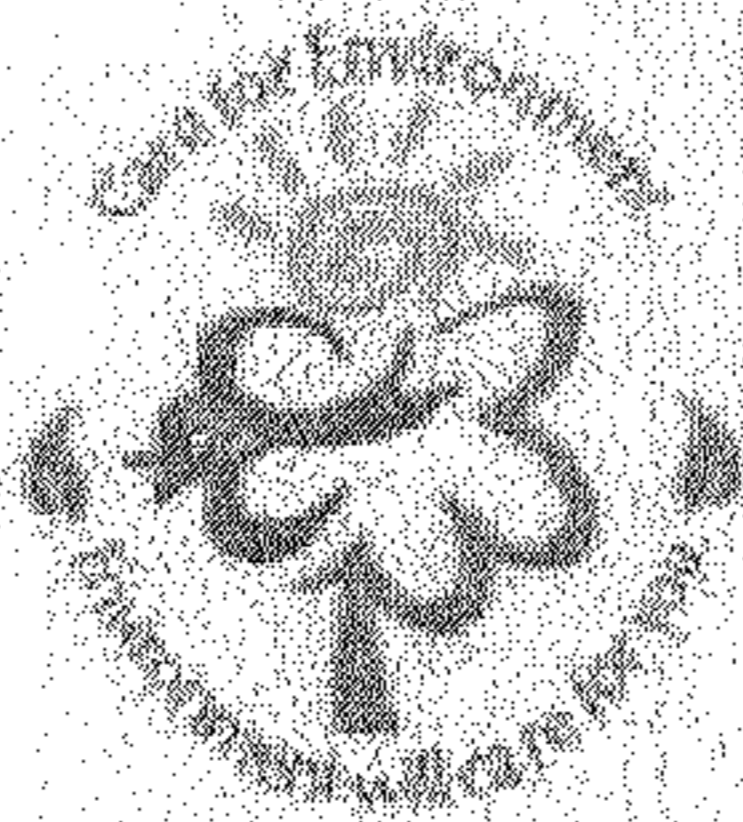
Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On : 12/09/2017

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Ref. No.: 665/01/2016-17

Date: 30/01/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company: Gallantt Metal Limited
Survey No. 175/L,
Near toll gate,
Village: Samakhyaal,
Taluka: Bhachau,
Kutch, Gujarat.

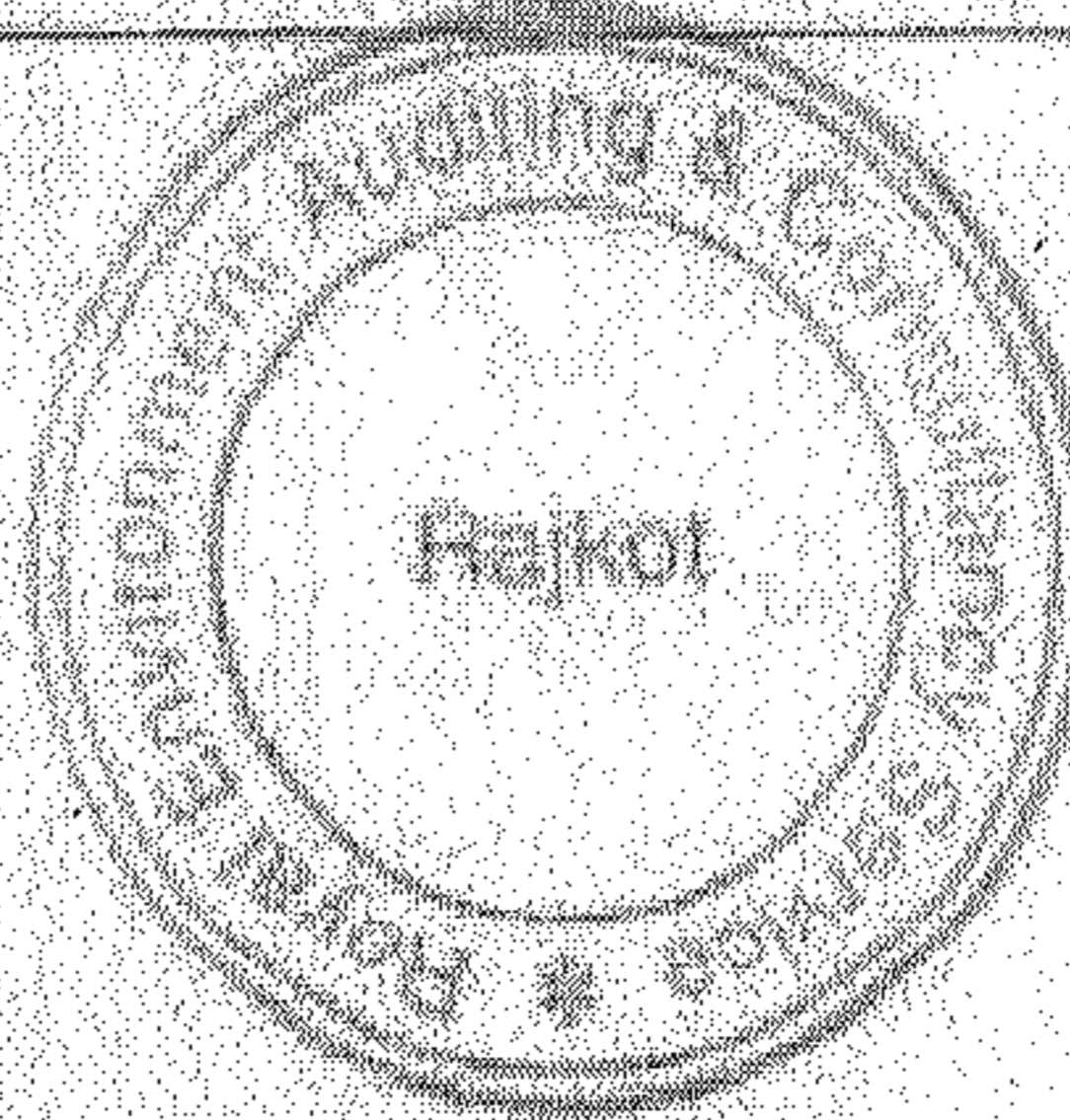
Test Method: As per IS Standards - 11255 1/2/3/7

Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	21-01-2017	21-01-2017	21-01-2017	21-01-2017
2	Time of sampling	Hr	11:30	12:30	14:30	15:30
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln - 3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recouperatur & ESP	Recouperatur & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48	30
7	Stack Temperature	Degree Centi.	113	117	81	122
8	Ambient Temperature	Degree Centi.	29	30	29	28
9	Average Velocity of Fine Gases	M/Sec.	8.4	8.7	8.3	9.5
10	Isokinetic flow rate for P.M. Sampling	LPM	18	20	19	18
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm ³	61	64	25	49
14	Permissible Limit for SO ₂	ppm	100	100	100	100
15	Measured Concentration of SO ₂	ppm	19.3	15.8	16.2	17.9
16	Permissible Limit for Nox	ppm	50	50	50	50
17	Measured Concentration of Nox	ppm	20.9	21.5	19.9	18.4
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	52	44.0	80	---

*Permissible limit not specified in EC copy as well as in GPCB CC&A

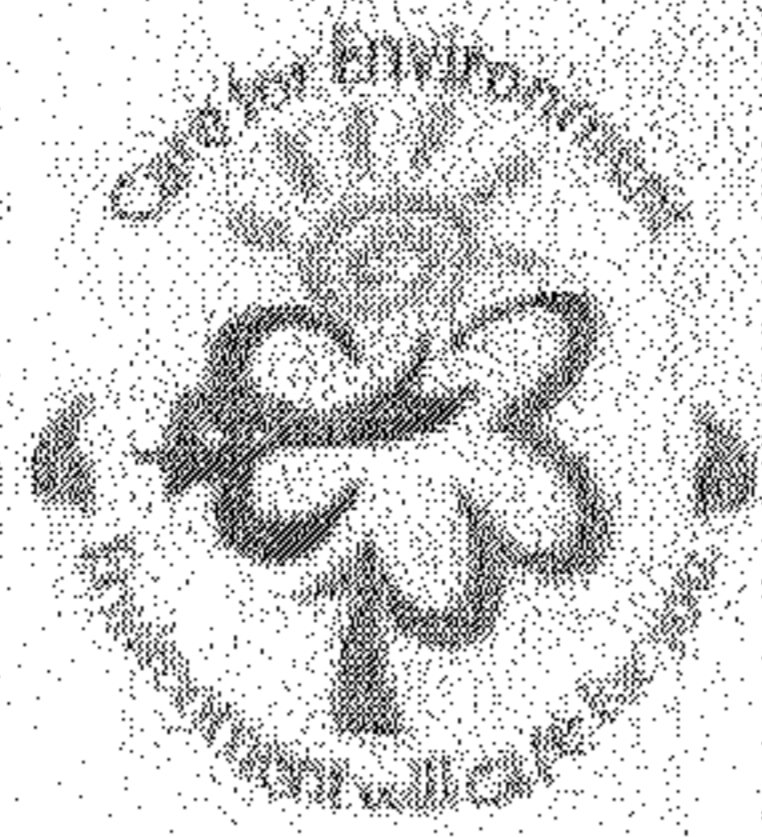
Instruments used: Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On: 12/09/2017



Mehendra
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Ref. No. : 656/12/2016-17

Date : 03/01/2017

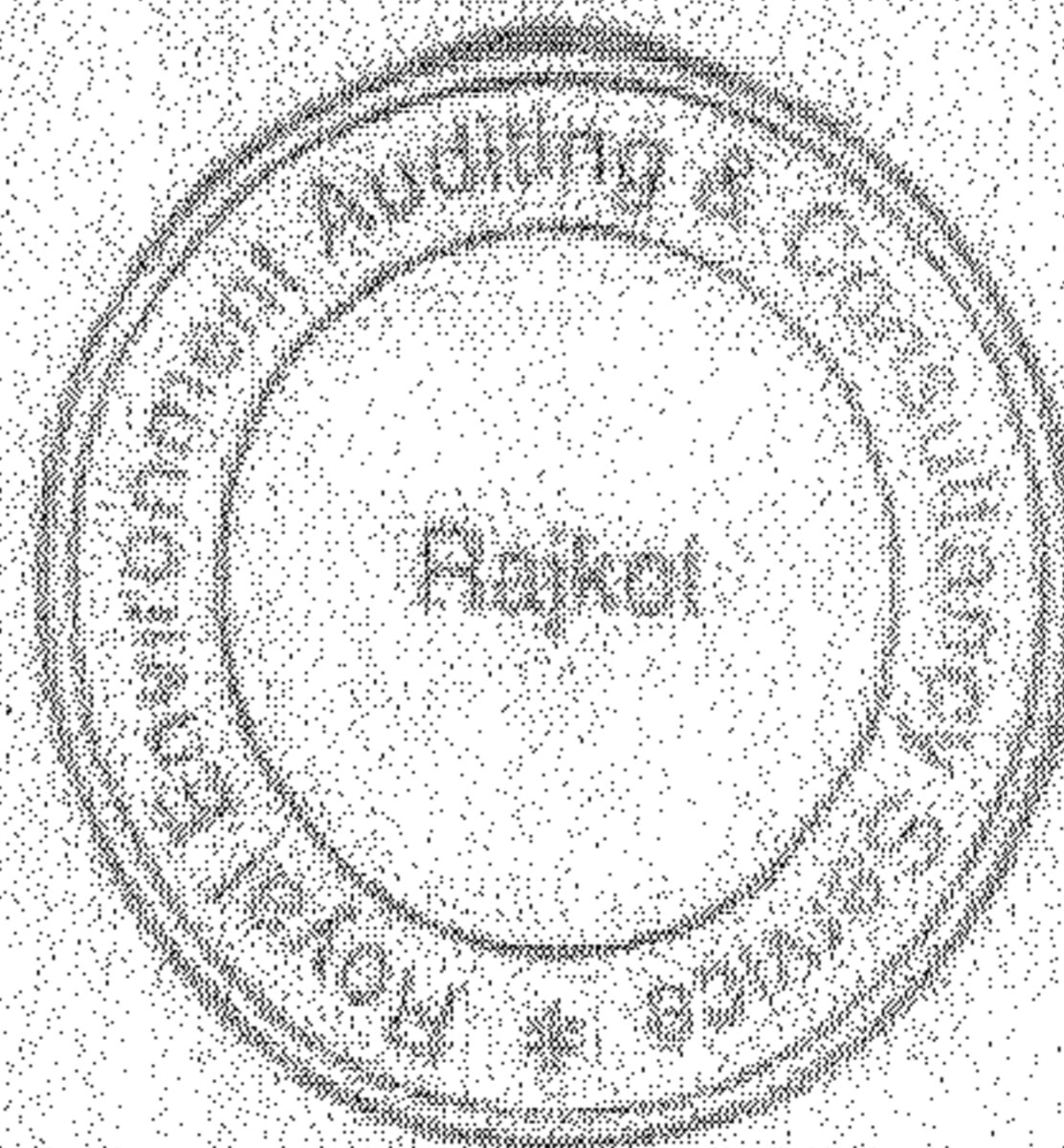
REPORT OF STACK EMISSION ANALYSIS

Name of company : Gullamti Metal Limited
Survey No. 173/1,
Near toll gate,
Village : Samakhiali,
Taluka : Bhachau,
Kutch, Gujarat.

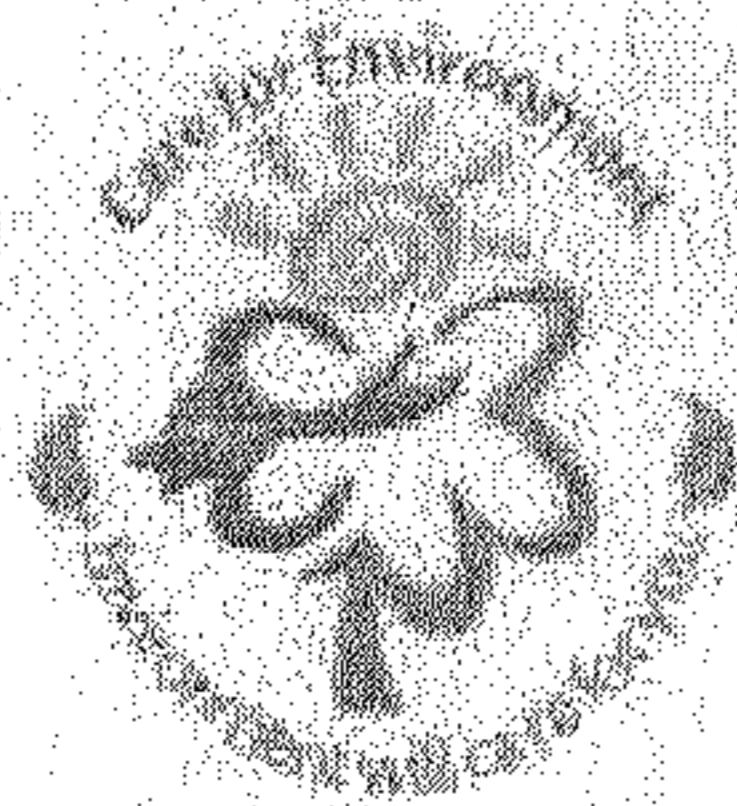
Sr. No.	Particulars	Unit	Stack-1
01.	Date of sampling	---	20-12-2016
02.	Time of sampling	Hr	10.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	33
08.	Stack Temperature	Degree Centi.	114
09.	Average Velocity of Flue Gases	M/Sec.	8.3
10.	Isokinetic flow rate for P.M. Sampling	LPM	19
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	59
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	10.7
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	24.6
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	88

*Permissible limit not specified in EC copy as well as in GPCB CC&A
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

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Ref. No. : 658/12/2016-17

Date : 03/01/2017

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallantt Metal Limited
Survey No. 175/1,
Near toll gate,
Village : Samakhiali,
Taluka : Bhachau,
Kutch, Gujarat

Test Method : As per IS Standards - 11255 1/2/3/7

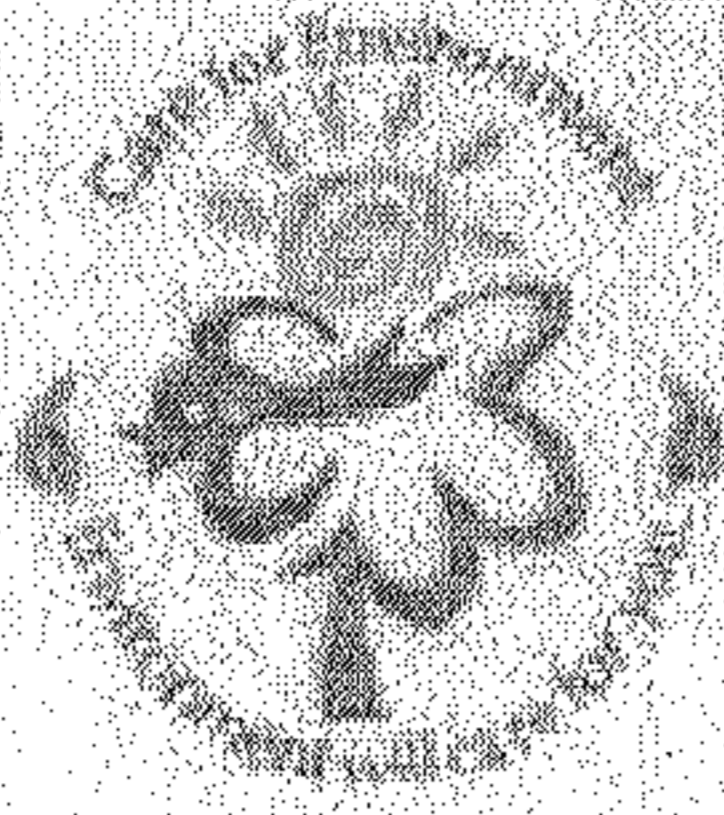
Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	20-12-2016	20-12-2016	20-12-2016	20-12-2016
2	Time of sampling	Hr	11:00	12:00	14:00	15:00
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln - 3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recouperatur & ESP	Recouperatur & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48	30
7	Stack Temperature	Degree Centi.	116	112	78	117
8	Ambient Temperature	Degree Centi.	33	34	34	33
9	Average Velocity of Flue Gases	M/Sec.	9.2	8.5	8.1	9.7
10	Isokinetic flow rate for P.M. Sampling	LPM	19	19	18	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm ³	67	68	29	53
14	Permissible Limit for SO ₂	ppm	100	100	100	100
15	Measured Concentration of SO ₂	ppm	18.7	16.4	17.3	18.2
16	Permissible Limit for Nox	ppm	50	50	50	50
17	Measured Concentration of Nox	ppm	22.5	19.3	14.6	17.3
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	55	45.0	85	---

*Permissible limit not specified in EC copy as well as in GPCB CC&A
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

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Ref. No. : 642/11/2016-17

Date : 01/12/2016

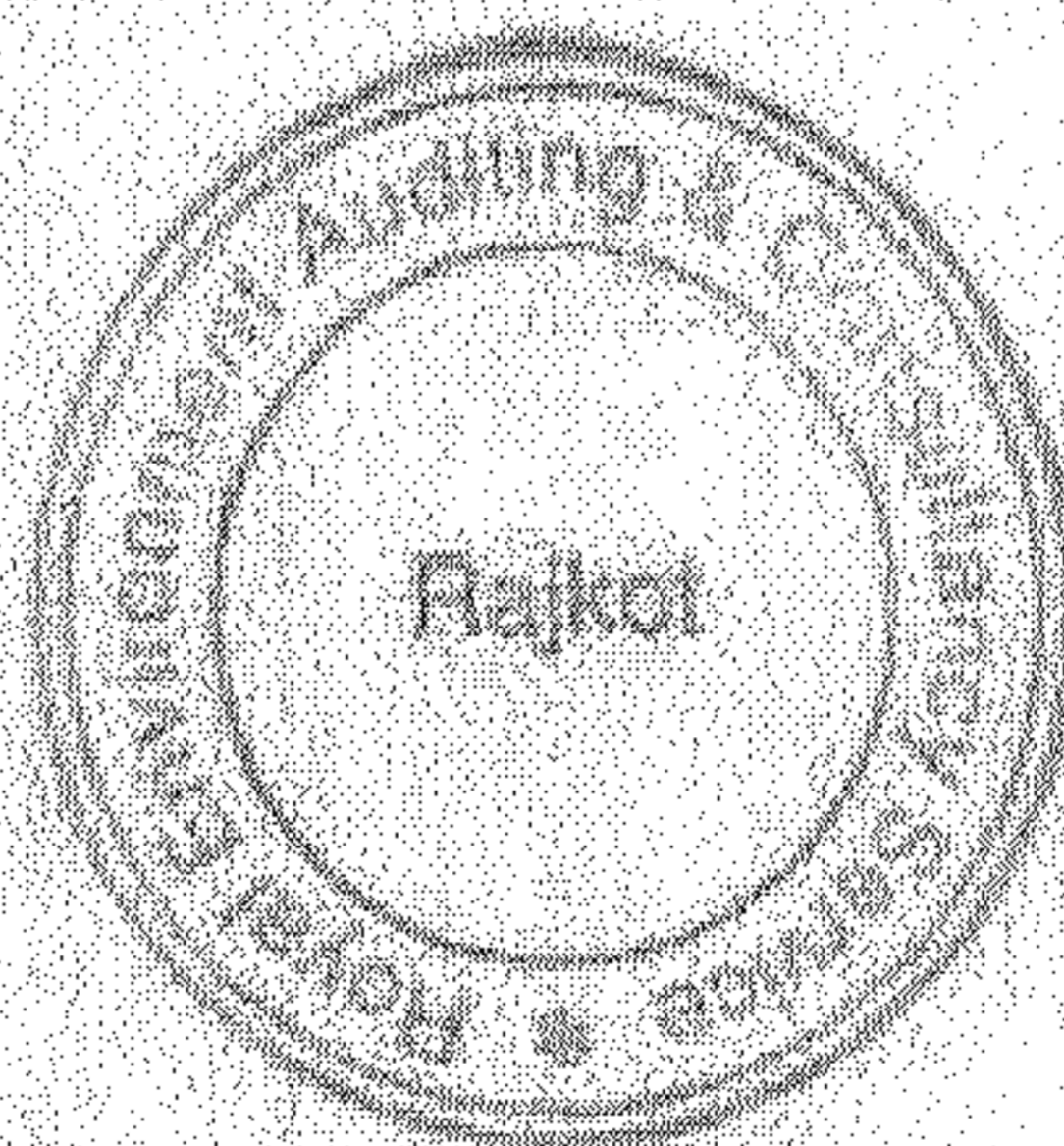
REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallanti Metal Limited
Survey No. 175/1,
Near toll gate,
Village : Samakhya,
Taluka : Bhachau,
Kutch, Gujarat.

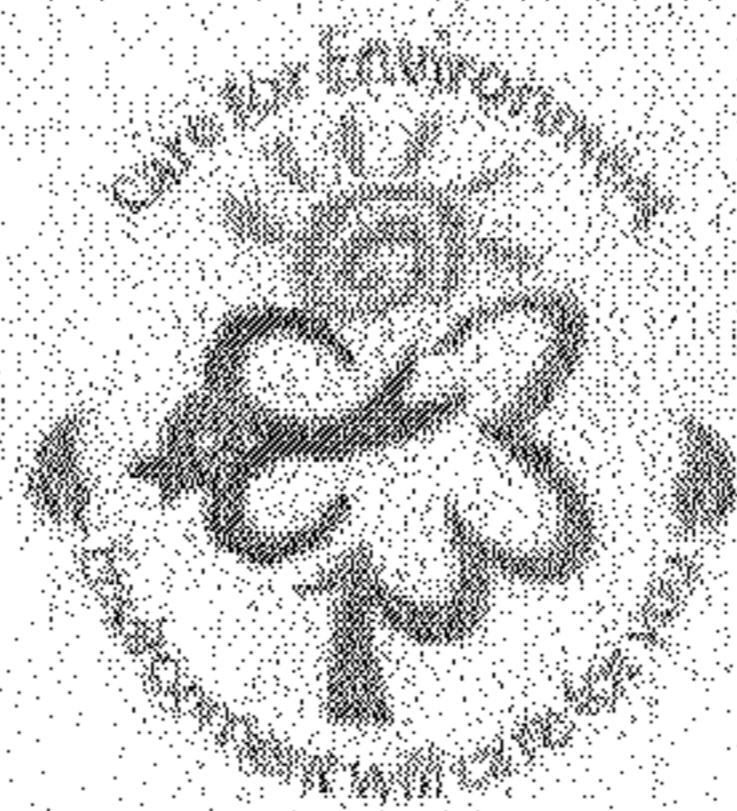
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	28-11-2016
02.	Time of sampling	Hr	9:30
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	35
08.	Stack Temperature	Degree Centi.	118
09.	Average Velocity of Flue Gases	M/Sec.	8.9
10.	Isokinetic flow rate for P.M. Sampling	LPM	20
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	63
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	20.5
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	23.9
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	93

*Permissible limit not specified in EC copy as well as in GPCB CC&A
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

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R/E No. 844/11/2016-17

Date: 01/12/2016

REPORT OF STACK EMISSION ANALYSIS

Name of company: Gallant Metal Limited

Survey No. 175/1.

Near toll gate,

Village: Samakhyali,

Taluka: Bhachau,

Kutch, Gujarat.

Test Method: As per IS Standards - 11255, 1/2/3/7

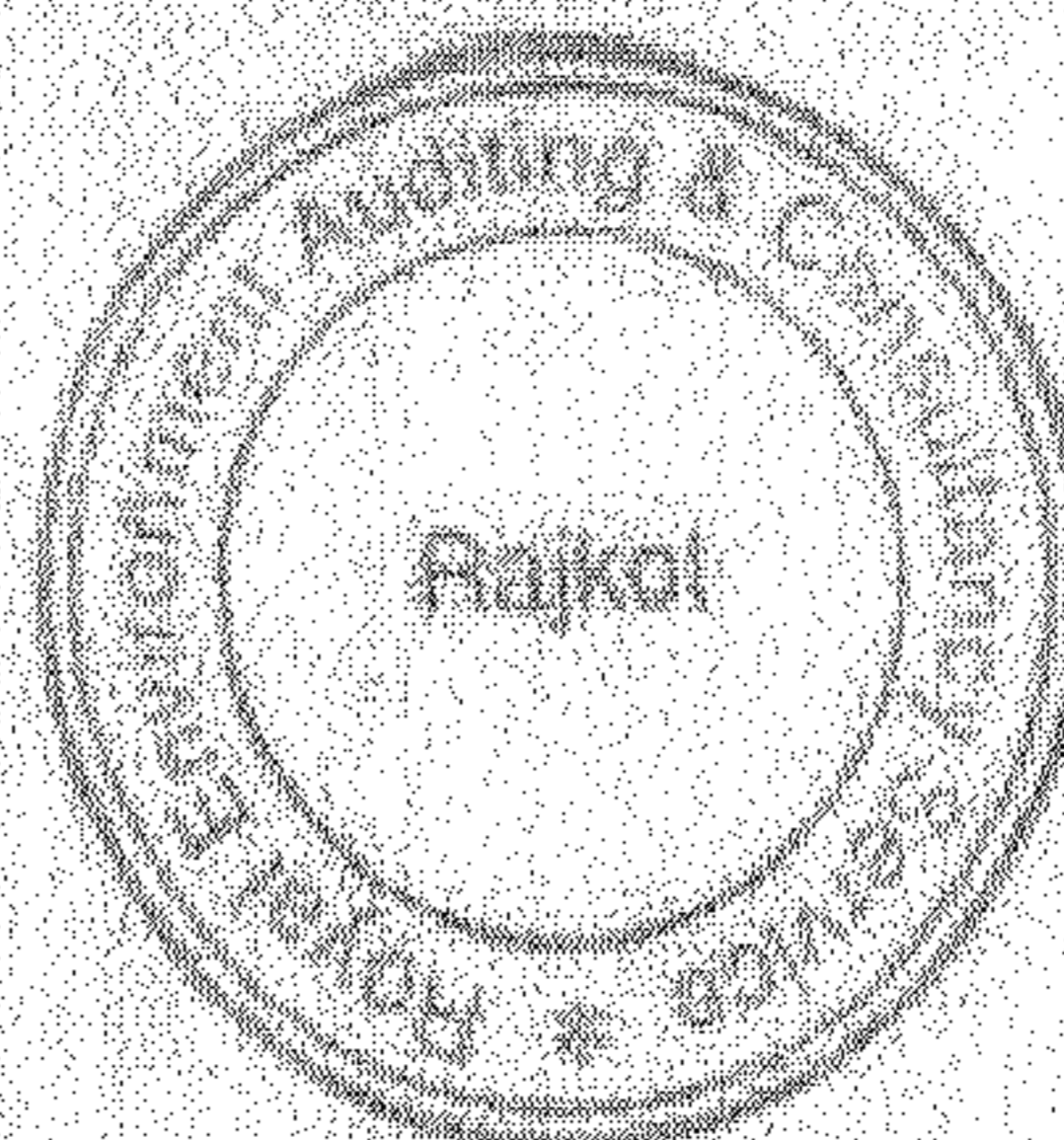
Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	28-11-2016	28-11-2016	28-11-2016	28-11-2016
2	Time of sampling	Hr	10:30	11:30	12:30	14:30
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln -3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recuperator & ESP	Recuperator & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	33	35	46	30
7	Stack Temperature	Degree Cent.	116	112	78	117
8	Ambient Temperature	Degree Cent.	33	34	34	33
9	Average Velocity of Flue Gases	M/Sec.	9.2	8.5	8.1	9.7
10	Isokinetic flow rate for P.M. Sampling	LPM	19	19	18	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm ³	61	64	26	57
14	Permissible Limit for SO ₂	ppm	100	100	100	100
15	Measured Concentration of SO ₂	ppm	17.3	15.2	16.4	17.9
16	Permissible Limit for NO _x	ppm	50	50	50	50
17	Measured Concentration of NO _x	ppm	21.3	18.5	17.2	13.5
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	59	43.0	75	---

*Permissible limit not specified in EC copy as well as in GPCB CC&A

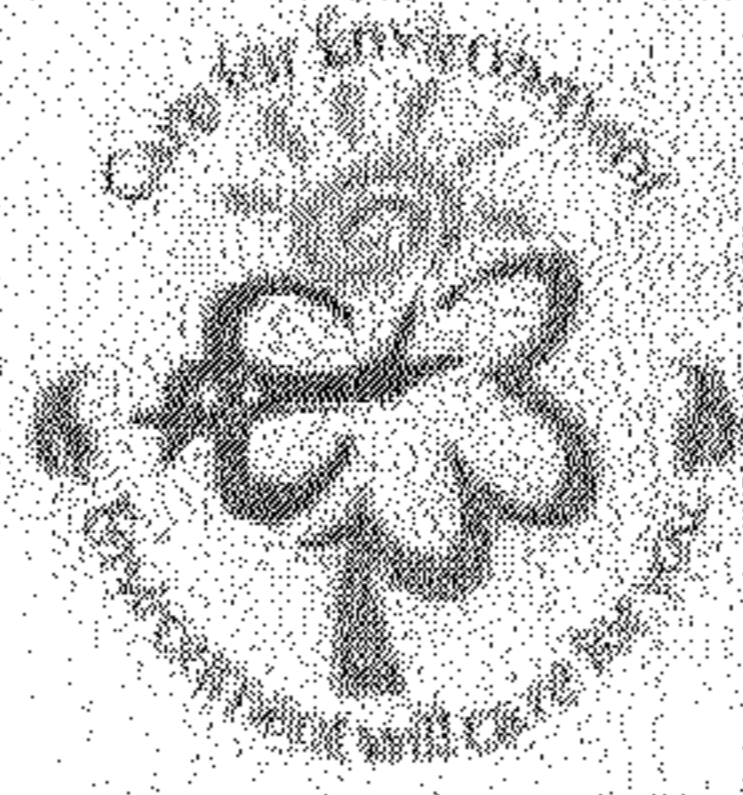
Instruments used: Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On: 12/09/2017

Royal Environment Auditing & Consultancy Service



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Analyst



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Ref. No. : 622/10/2016-17

Date : 03/11/2016

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallanti Metal Limited
Survey No. 175/1,
Near toll gate,
Village : Samakhiali,
Taluka : Bhachau,
Kutch, Gujarat.

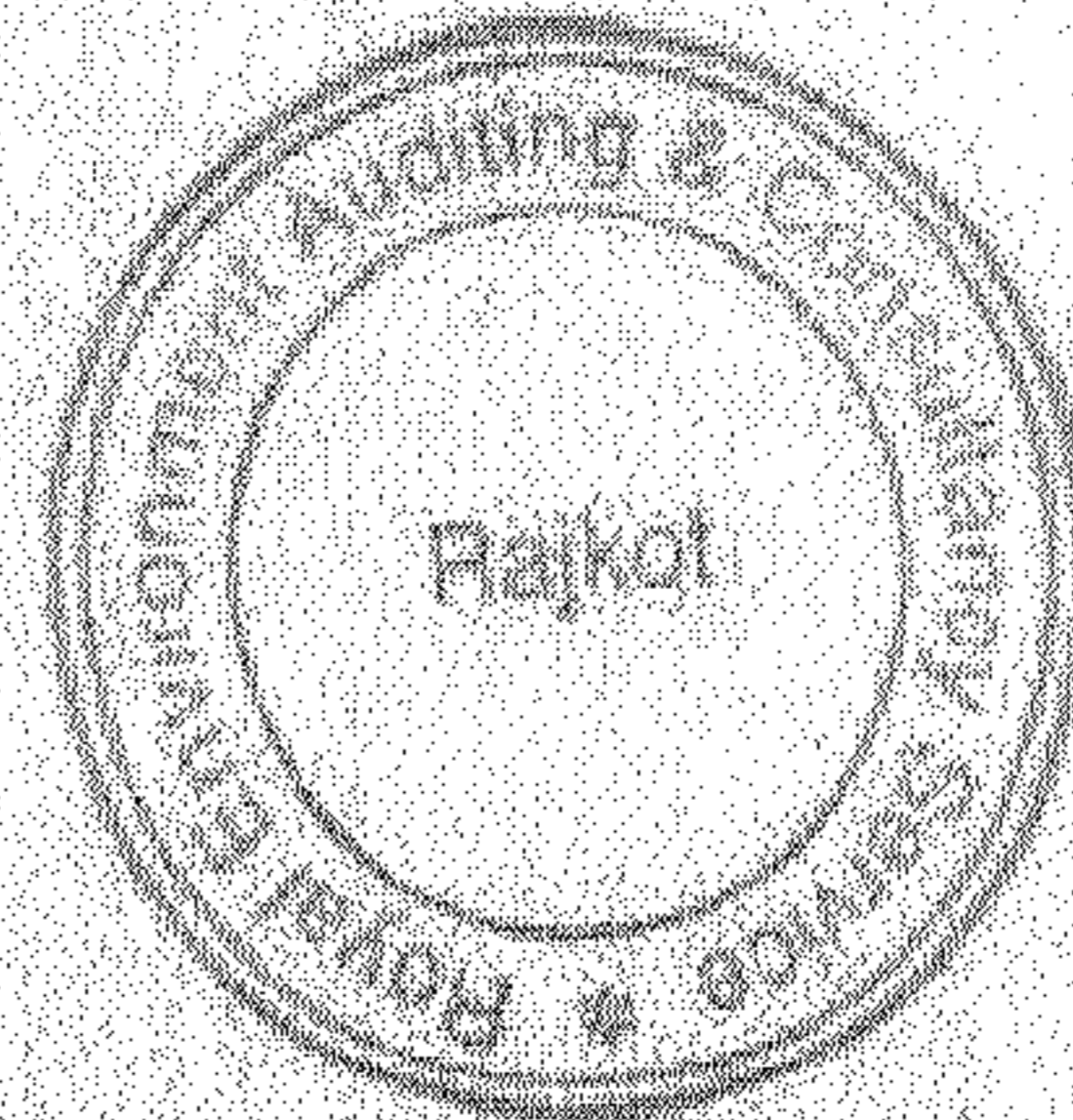
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	10-10-2016
02.	Time of sampling	Hr	10.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi	37
08.	Stack Temperature	Degree Centi	114
09.	Average Velocity of Flue Gases	M/Sec	8.4
10.	Isokinetic flow rate for P.M. Sampling	LPM	20
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.	mg/Nm ³	100
13.	Measured Concentration of P.M.	mg/Nm ³	61
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	21.3
16.	Permissible Limit for NO _x	ppm	50
17.	Measured Concentration of NO _x	ppm	22.5
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	97

*Permissible limit not specified in EC copy as well as in GPCB CC&A.

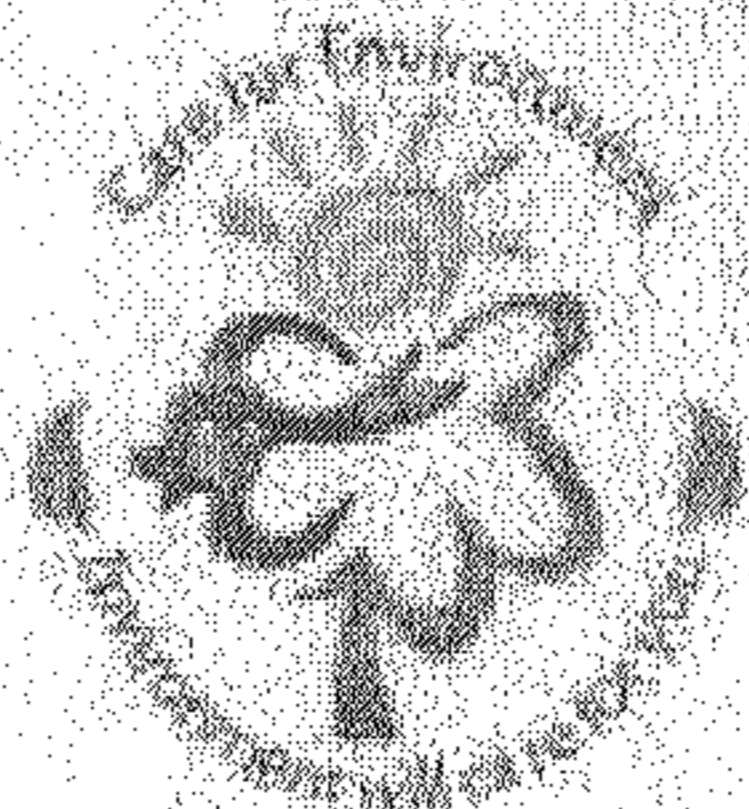
Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On : 12/09/2017

Royal Environment Auditing & Consultancy Service



M. K. K. Analyst



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Ref. No. : 624/10/2016-17

Date : 03/11/2016

REPORT OF STACK EMISSION ANALYSIS

Name of company : Gallantt Metal Limited
Survey No. 175/1,
Near toll gate,
Village : Samakhyal,
Taluka : Bhachau,
Kutch, Gujarat.

Test Method : As per IS Standards - 11255 1/2/3/7

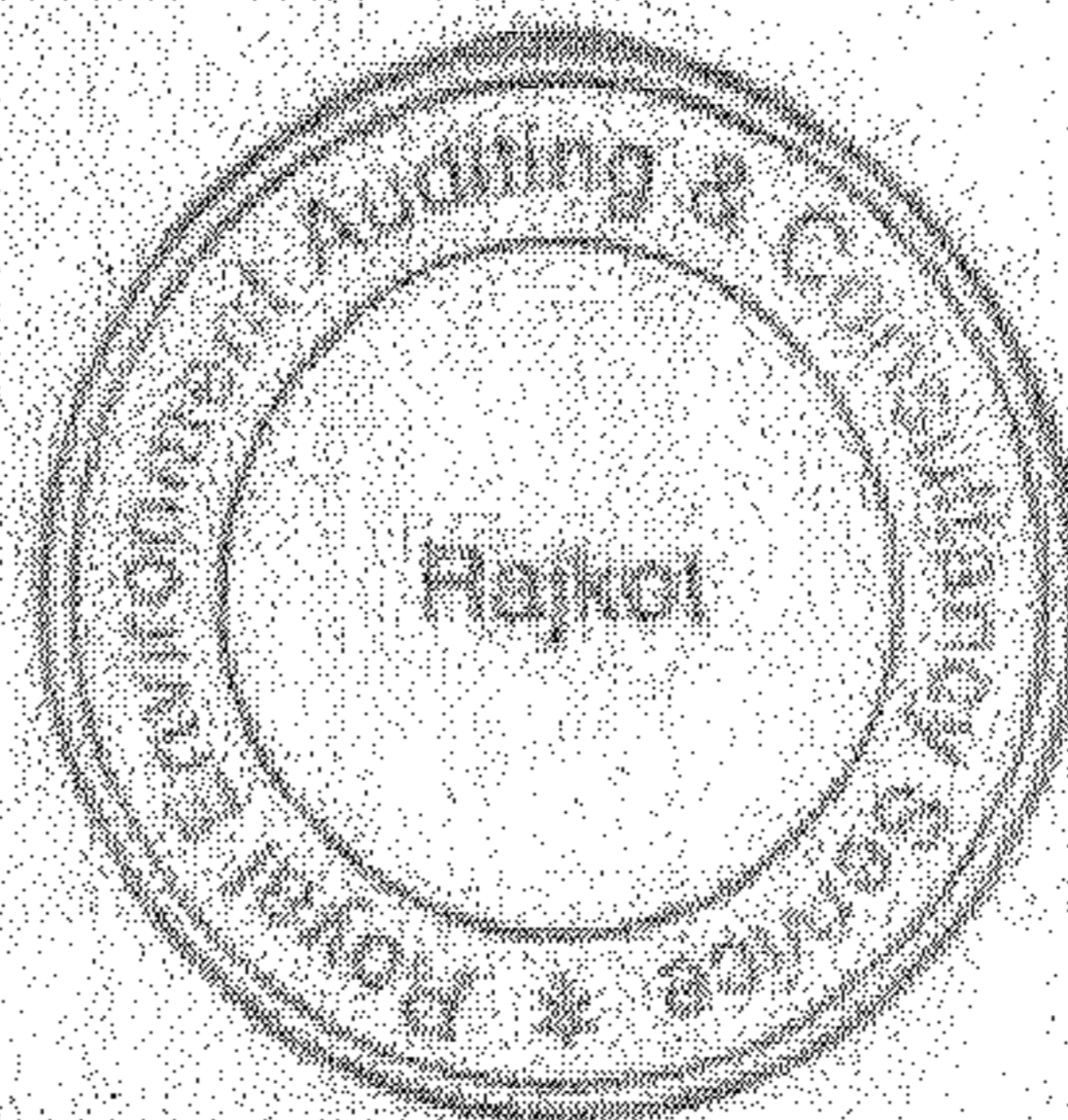
Sr. No.	Particulars	Unit	Stack - 3	Stack - 4	Stack - 5	Stack - 6
1	Date of sampling	---	10-10-2016	10-10-2016	10-10-2016	10-10-2016
2	Time of sampling	Hr	11:00	12:00	14:00	15:15
3	Stack Attached to	---	Rotary Kiln 1, 2	Rotary Kiln - 3	Induction Furnace - 1, 2 & 3	Reheating Furnace
4	Air Pollution Control Measures	---	Recouperatur & ESP	Recouperatur & ESP	Cyclone Separator & Wet Scrubber	---
5	Stack Diameter	Meter	1.5	1.5	1.5	1.5
6	Stack Height	Meter	35	35	48	30
7	Stack Temperature	Degree Centi.	117	116	83	119
8	Ambient Temperature	Degree Centi.	36	37	38	36
9	Average Velocity of Flue Gases	M/Sec.	9.5	9.3	9.7	9.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18	20	19	18
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible Limit for P.M.	mg/Nm ³	100	100	50	100
13	Measured Concentration of P.M.	mg/Nm ³	59	67	29	54
14	Permissible Limit for SO ₂	ppm	100	100	100	100
15	Measured Concentration of SO ₂	ppm	16.5	14.3	15.8	16.2
16	Permissible Limit for Nox	ppm	50	50	50	50
17	Measured Concentration of Nox	ppm	20.5	19.8	17.3	12.9
18	Permissible Limit for CO*	---	---	---	---	---
19	Measured Concentration of CO*	ppm	61	45.0	85	---

*Permissible limit not specified in EC enpy as well as in GPCB CC&A

Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On : 12/09/2017

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