

ANNEXURE A

STACK MONITORING ANALYSIS REPORT

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



Royal

Environment Auditing & Consultancy Service

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

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

Ref No. : 15/05/2017-18

Date : 03/06/2017

REPORT OF STACK EMISSION ANALYSIS

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

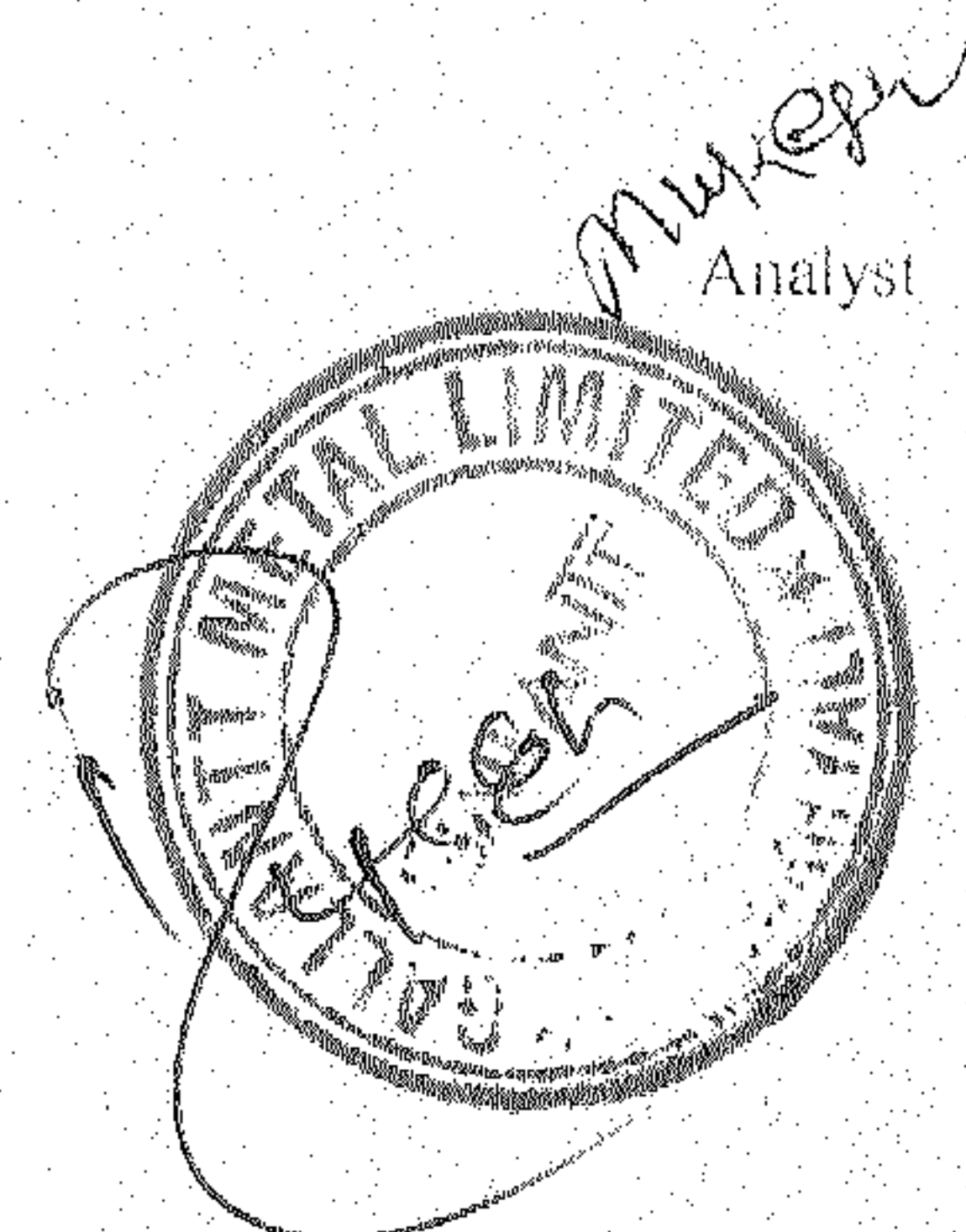
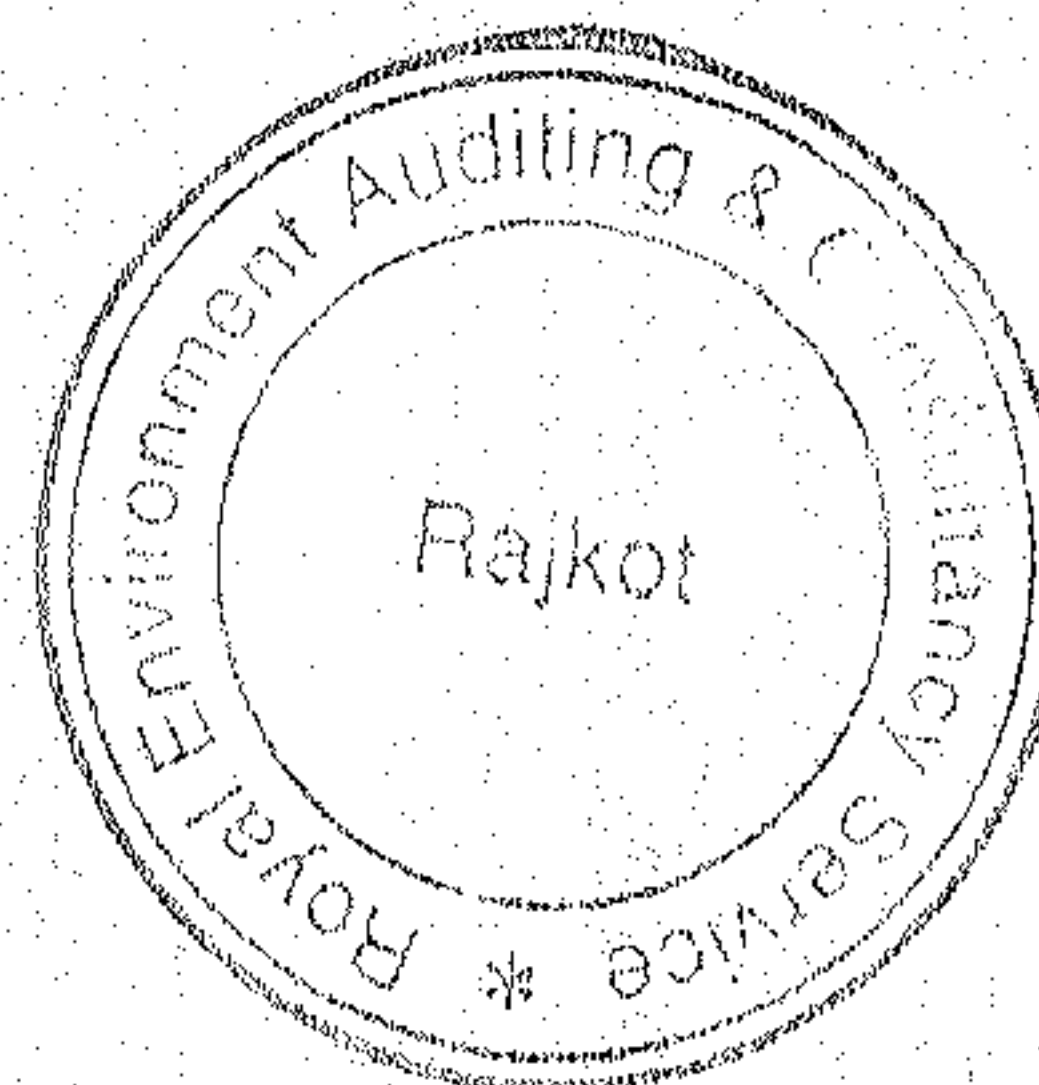
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	26-05-2017
02.	Time of sampling	Hr	12.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	39
08.	Stack Temperature	Degree Centi.	121
09.	Average Velocity of Flue Gases	M/Sec.	8.5
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	19.6
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	23.7
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	68

*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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Ref. No. : 719/06/2017-18

Date : 05/07/2017

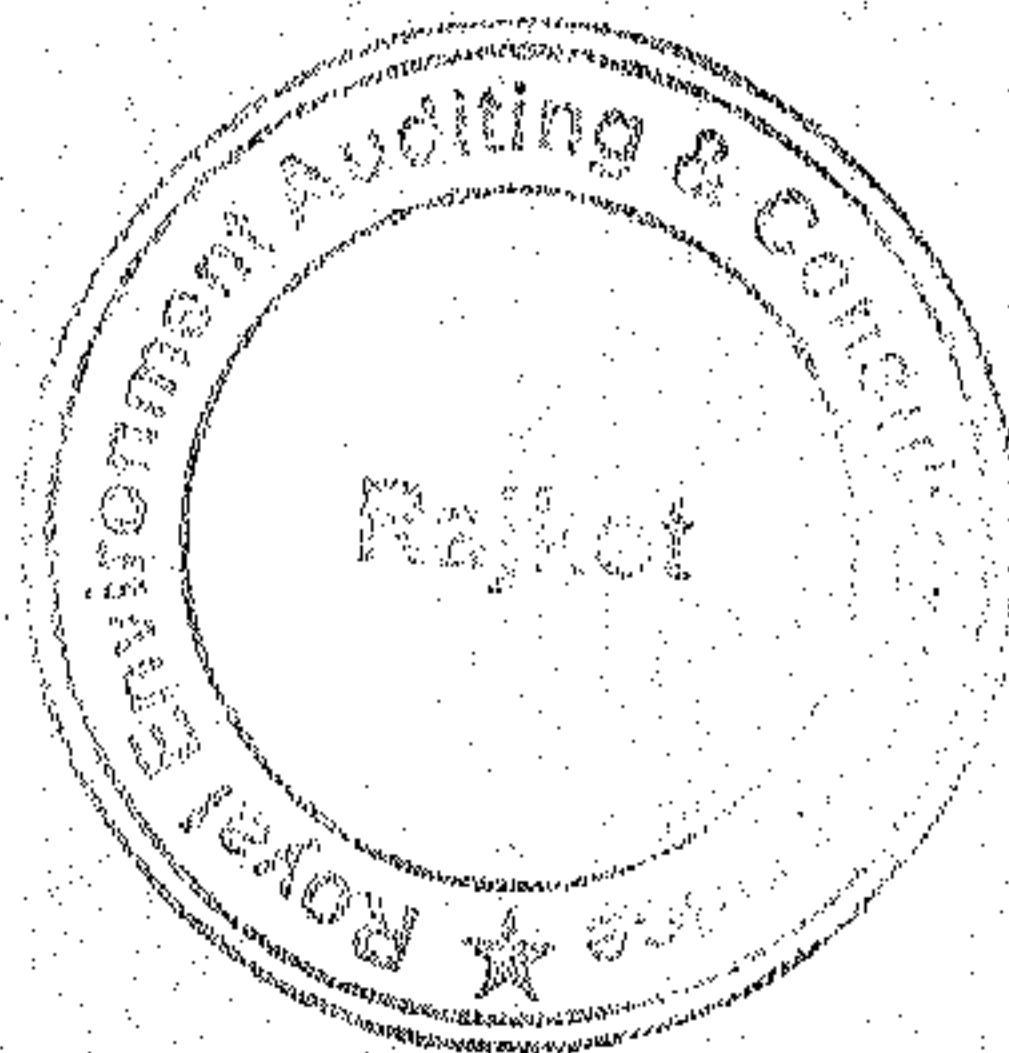
REPORT OF STACK EMISSION ANALYSIS

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

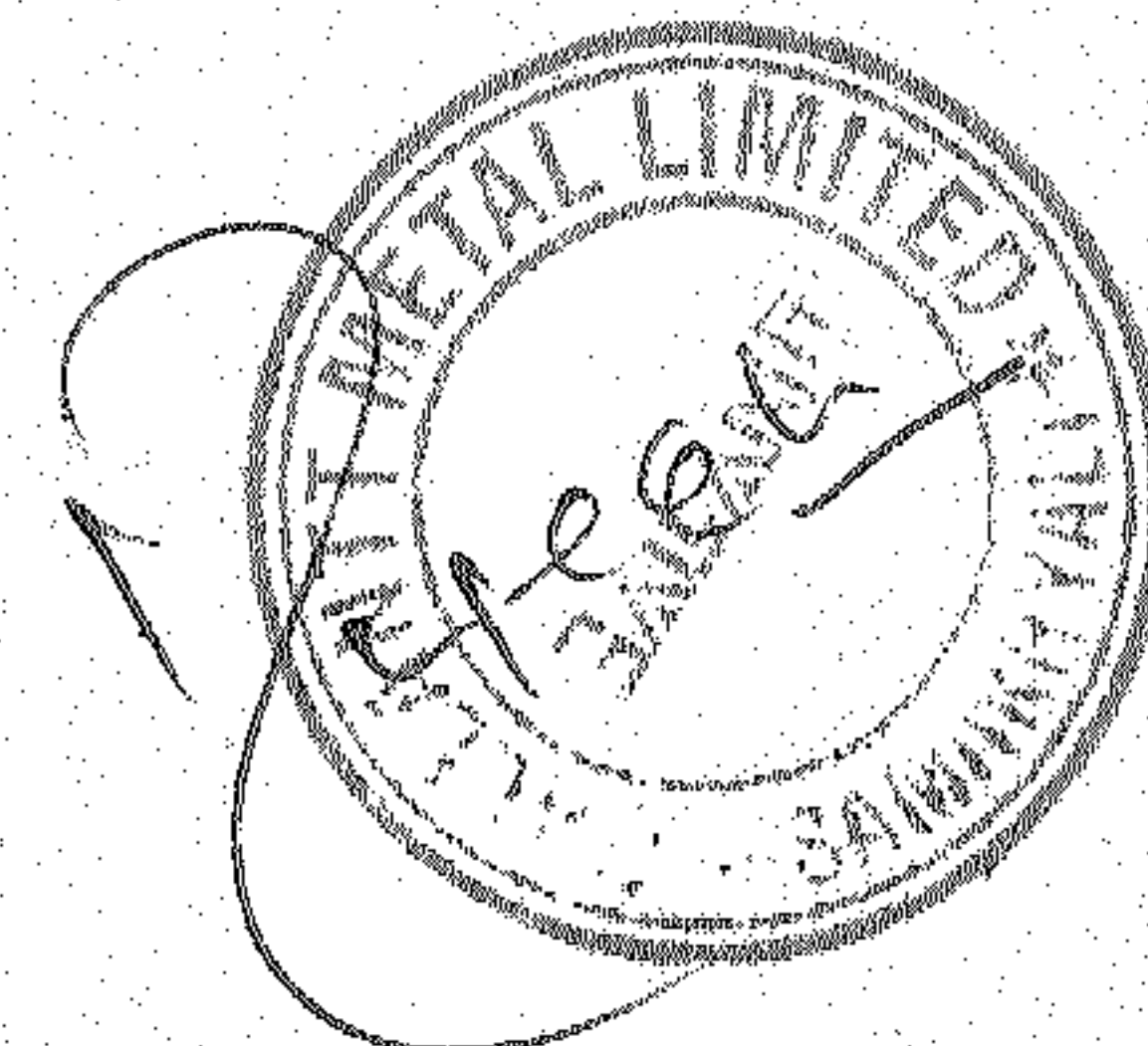
Sr. No.	Particulars	Unit	Stack - I
01.	Date of sampling	---	26-06-2017
02.	Time of sampling	Hr	14.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	34
08.	Stack Temperature	Degree Centi.	117
09.	Average Velocity of Flue Gases	M/Sec	8.2
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	53
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	18.4
16.	Permissible Limit for NO _x	ppm	50
17.	Measured Concentration of NO _x	ppm	21.6
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	62

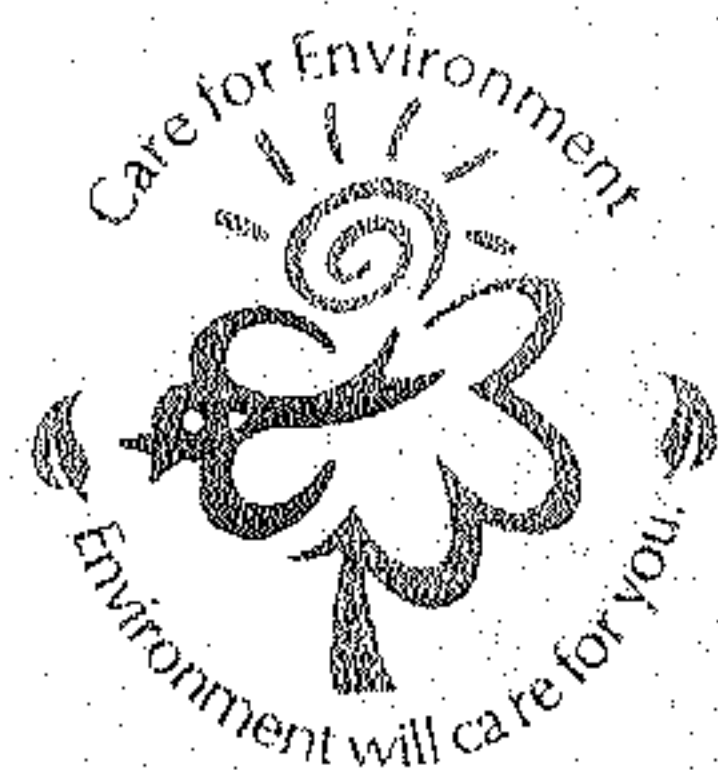
*Permissible limit not specified in EC copy as well as in GPCB CC&A
Instruments used : Ecotech Stack Sampler, Model No. ESS 100
Calibration Due On : 12/09/2017

Royal Environment Auditing & Consultancy Service



M. K. M. M.
Analyst





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Ref. No. : 697/04/2017-18

Date : 06/05/2017

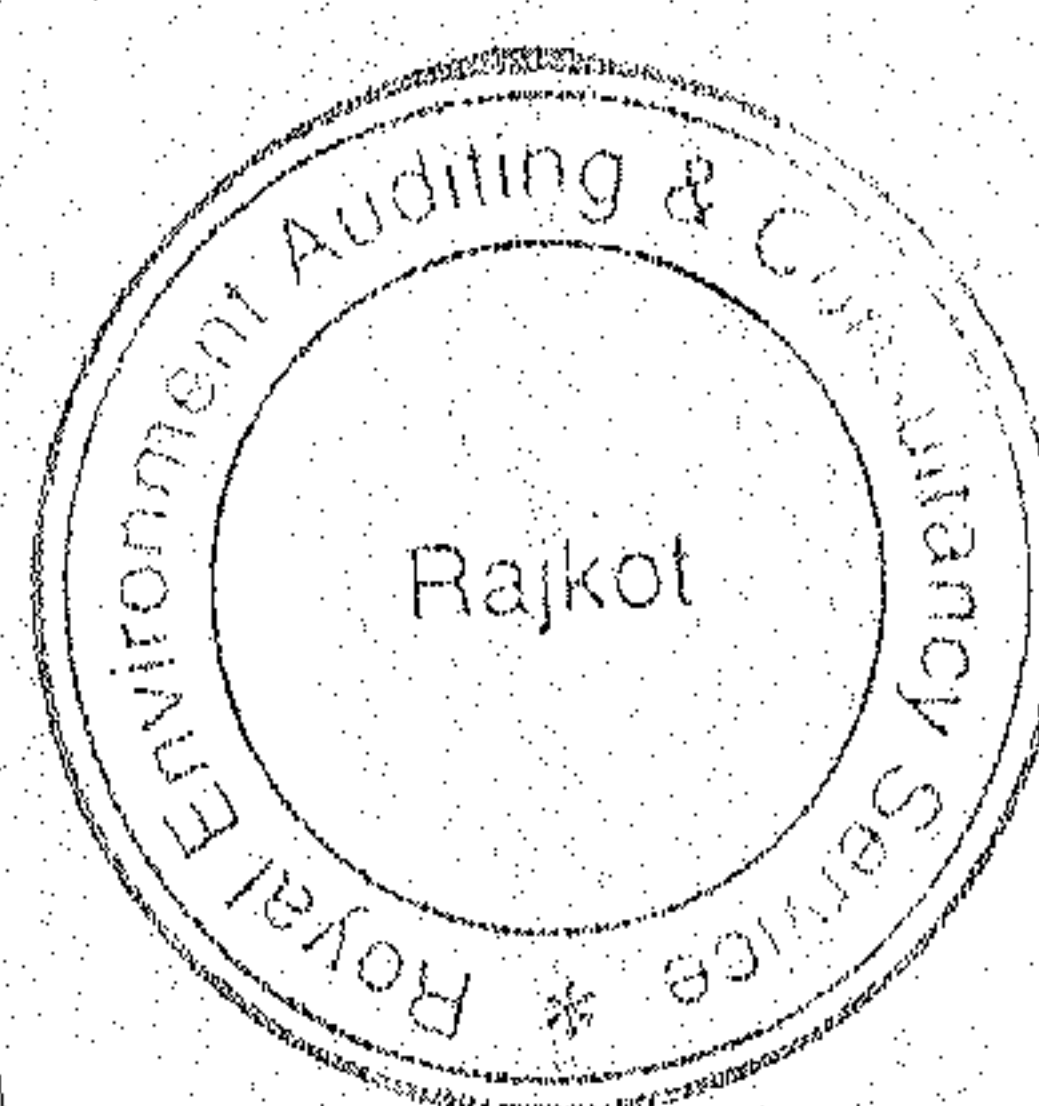
REPORT OF STACK EMISSION ANALYSIS

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

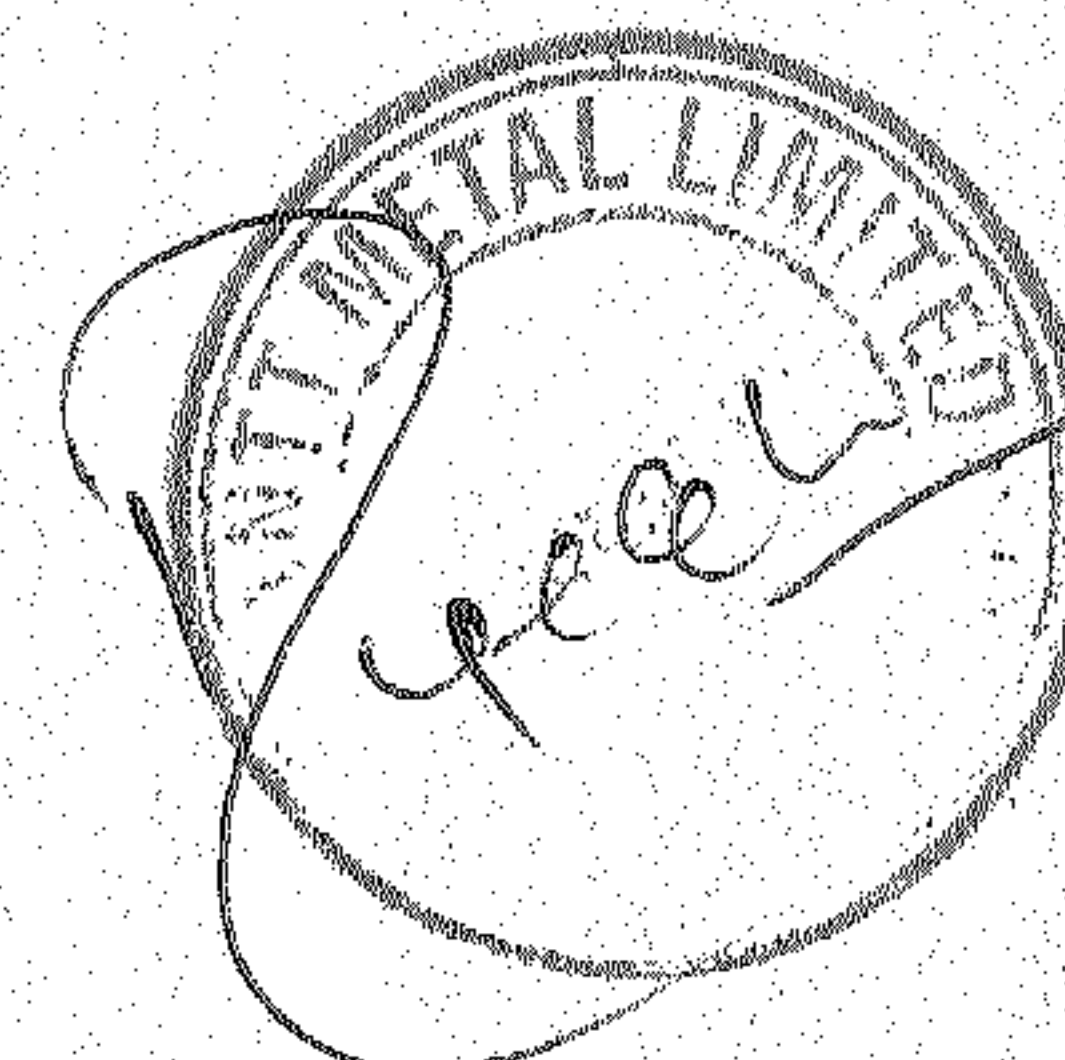
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	29-04-2017
02.	Time of sampling	Hr	9.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.6
07.	Ambient Temperature	Degree Centi.	37
08.	Stack Temperature	Degree Centi.	119
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	56
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	18.5
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	21.9
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	78

*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. : 723/07/2017-18

Date : 03/08/2017

REPORT OF STACK EMISSION ANALYSIS

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

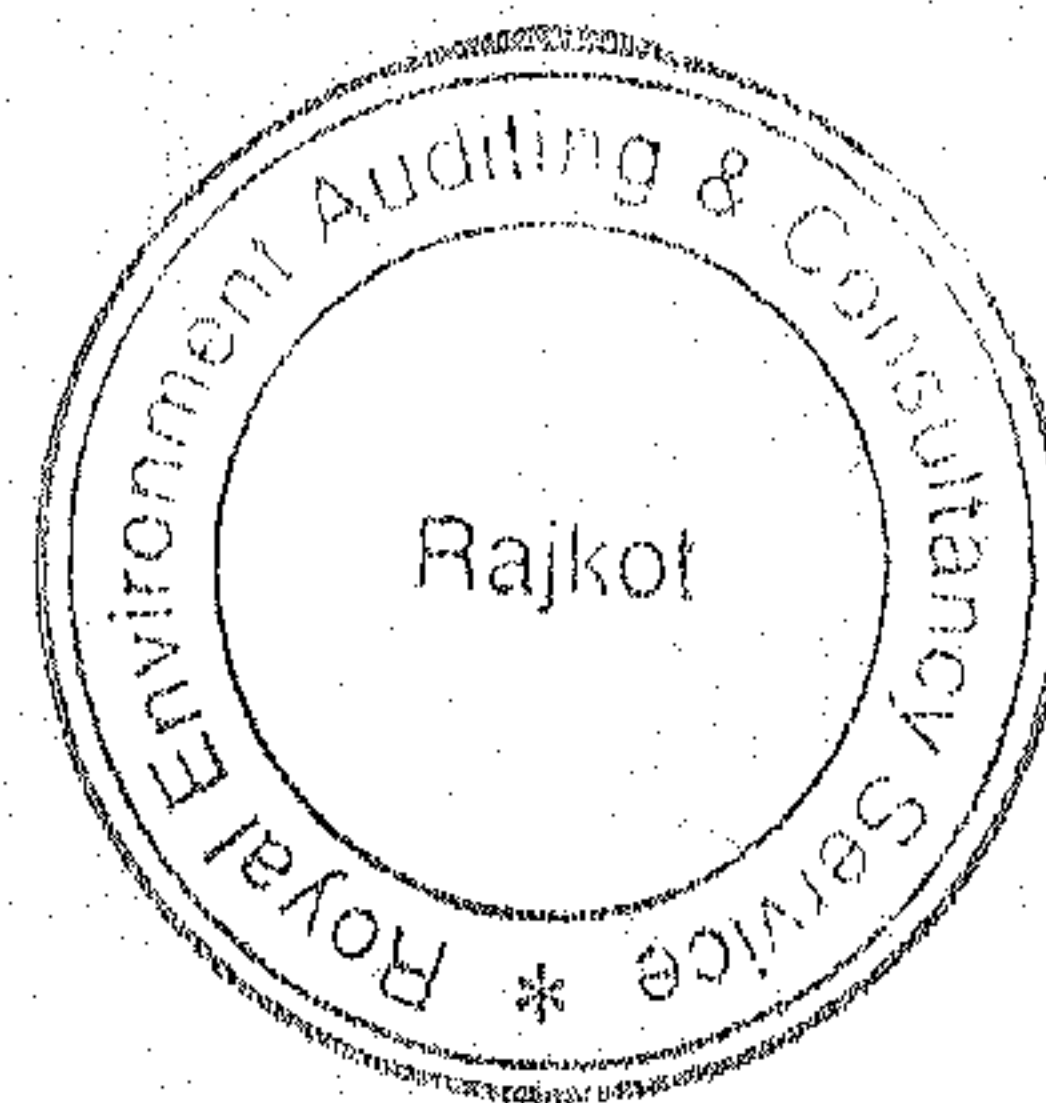
Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	27-07-2017
02.	Time of sampling	Hr	10.00
03.	Stack Attached to	---	AFBC Boiler of Power Plant
04.	Air Pollution Control Measures	---	ESP
05.	Stack Height	Meter	90
06.	Stack Diameter	Meter	3.8
07.	Ambient Temperature	Degree Centi.	28
08.	Stack Temperature	Degree Centi.	113
09.	Average Velocity of Flue Gases	M/Sec.	8.7
10.	Isokinetic flow rate for P.M. Sampling	LPM	17
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	57
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	19.3
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	22.7
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	68

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

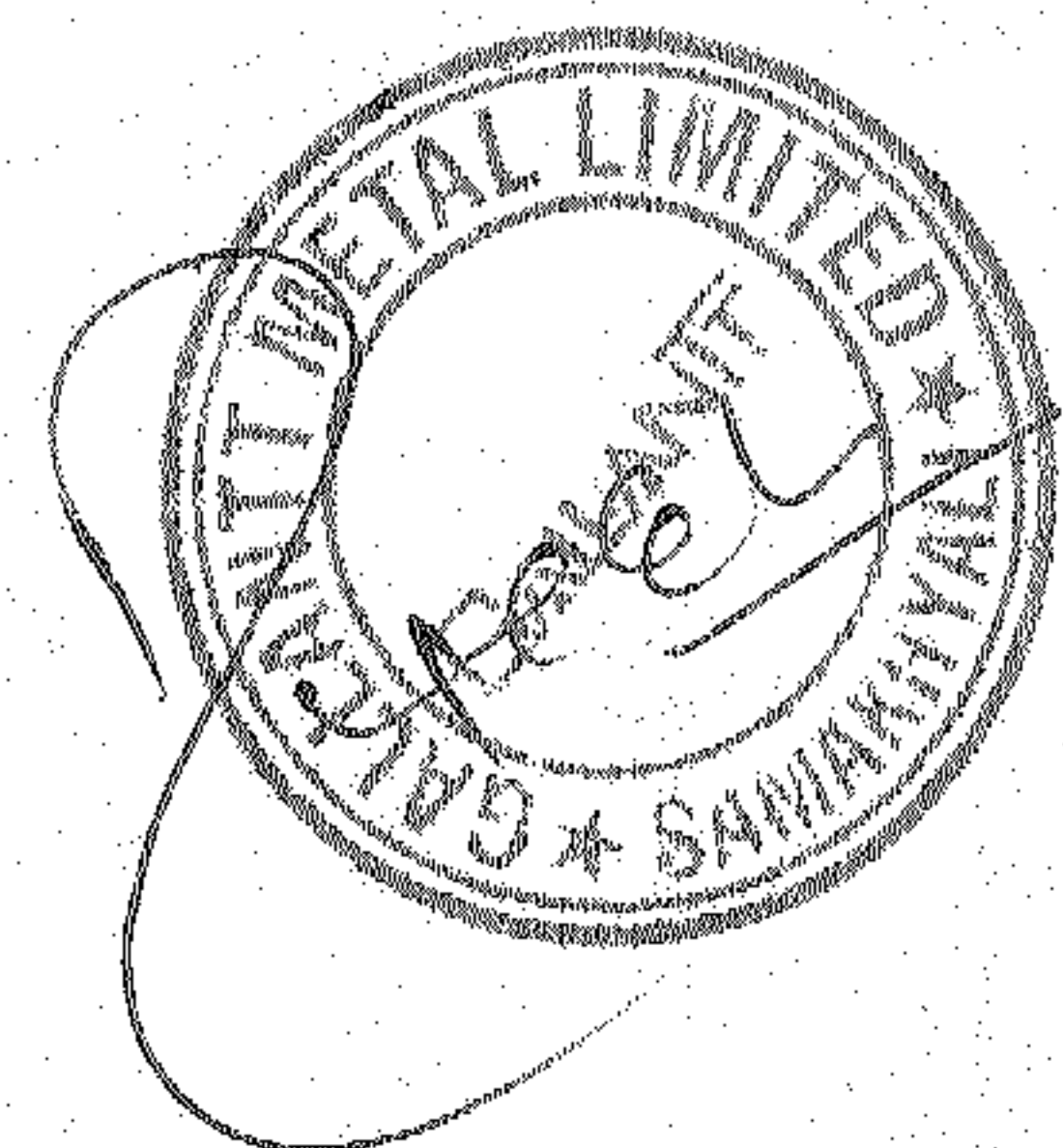
Instruments used : Ecotech Stack Sampler, Model No. ESS 100

Calibration Due On. : 12/09/2017

Royal Environment Auditing & Consultancy Service



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Analyst





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Ref. No. : 739/08/2017-18

Date : 31/08/2017

REPORT OF STACK EMISSION ANALYSIS

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

Sr. No.	Particulars	Unit	Stack - 1
01.	Date of sampling	---	20-08-2017
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	3.8
07.	Ambient Temperature	Degree Centi.	30
08.	Stack Temperature	Degree Centi.	116
09.	Average Velocity of Flue Gases	M/Sec.	9.2
10.	Isokinetic flow rate for P.M. Sampling	LPM	21
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	62
14.	Permissible Limit for SO ₂	ppm	100
15.	Measured Concentration of SO ₂	ppm	18.7
16.	Permissible Limit for NOx	ppm	50
17.	Measured Concentration of NOx	ppm	20.4
18.	Permissible Limit for CO*	---	---
19.	Measured Concentration of CO*	ppm	69

*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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