



# R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS  
ESTABLISHED IN 1900

TAHER MANSION, 1ST FLOOR

9, BENTINCK STREET, KOLKATA - 700 001

Ph. : 2248-3661/2698/7803, 2262-4153/4154, Fax : 33 2248-0447

E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN : U51109WB1931PTC007007

## TEST REPORT

No. AP-FG/15-16/02

Date: Apr 01, 2016

Page 1 of 1

Issued to : M/S. ALMEGA PAINTS PRIVATE LTD.					
Address : Vill+P.O.: Tulsiberia, P.S.: Uluberia, Howrah- 711401.					
Sample Description : Flue Gas	Test Completed on : 29.03.2016				
Date & time of sampling : 24.03.2016 at 01:40 P.M.					
<b>A. General information about stack :</b>					
1. Stack connected to	: Thermic Fluid Heater - 1 (TFH-2 is shut down during sampling)				
2. Emission due to	: Burning of Diesel.				
3. Material of construction of stack	: M.S.				
4. Shape of stack	: Circular				
5. Whether stack is provided with permanent platform & ladder	: Yes.				
6. Boiler capacity	: 6,00,000 Kcal/hr.				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : ---				
3. Diameter of the stack at sampling point	: 0.35 M				
4. No. of Traverse point	: 08 Nos.				
5. Height of the sampling point from GL	: 7.0 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Diesel	2. Fuel consumption : 35 Lt./hr.				
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 756 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	67	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	6.07	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	1756	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm <sup>3</sup>	71.0	N.A
5.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
6.	Carbon dioxide	APHA - ORSAT	% v/v	7.0	N.A
7.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	15	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

*Jr*  
M. Chatterjee  
(J. MUKHERJEE)  
Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

AKD

- ★ The test report shall not be reproduced, except in full, without written approval of the Company.
- ★ Results relate only to the parameters tested.



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CIN : U51109WB1931PTC007007

## TEST REPORT

No. AP-FG/15-16/03

Date: Apr 01, 2016

Page 1 of 1

<b>Issued to</b> : M/S. ALMEGA PAINTS PRIVATE LTD.					
<b>Address</b> : Vill+P.O.: Tulsiberia, P.S.: Uluberia, Howrah- 711401.					
Sample Description : Stack Gas	Test Completed on : 29.03.2016				
Date & time of sampling : 24.03.2016 at 02:15 P.M.					
<b>A. General information about stack :</b>					
1. Stack connected to	: Diesel Generator.				
2. Emission due to	: Burning of Diesel				
3. Material of construction of stack	: M.S.				
4. Shape of stack	: Circular.				
5. Whether stack is provided with permanent platform & ladder : Sample was taken from temporary ladder.					
6. Generator capacity	: 160 KVA (1)				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 6.09 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : ---				
3. Diameter of the stack at sampling point	: 0.15 M				
4. No. of Traverse point	: 4 Nos.				
5. Height of the sampling point from GL	: 4.0 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Diesel	2. Fuel consumption : 24 Lt./hr.				
<b>D. Results of sampling &amp; analysis of gaseous emission :</b> Barometric pressure : 754 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per Environment (Protection) Amendment Rules 2002, for 50 kw - ≤ 176 kw
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	134	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	8.41	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	372	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm <sup>3</sup>	73.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	53.0	
6.	Carbon monoxide	By NDIR	gm/kw-hr mg/Nm <sup>3</sup>	0.15 153	9.2
7.	Carbon dioxide	APHA - ORSAT	gm/kw-hr % v/v	0.44 7.0	3.5 N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup> gm/kw-hr	32 0.09	N.A 0.3
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

*J. Mukherjee*  
**(J. MUKHERJEE)**  
 Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

## TEST REPORT

No. AP-FG/15-16/04

Date: Apr 01, 2016

Page 1 of 1

<b>Issued to</b> : M/S. ALMEGA PAINTS PRIVATE LTD.					
<b>Address</b> : Vill+P.O.: Tulsiberia, P.S.: Uluberia, Howrah- 711401.					
<b>Sample Description</b> : Flue Gas	<b>Test Completed on</b> : 29.03.2016				
<b>Date &amp; time of sampling</b> : 24.03.2016 at 03:00 P.M.					
<b>A. General information about stack :</b>					
1. Stack connected to	: Thermic Fluid Heater - 2 (TFH-1 is shut down during sampling)				
2. Emission due to	: Burning of Diesel.				
3. Material of construction of stack	: M.S.				
4. Shape of stack	: Circular				
5. Whether stack is provided with permanent platform & ladder	: Yes.				
6. Boiler capacity	: 6,00,000 Kcal/hr.				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : ---				
3. Diameter of the stack at sampling point	: 0.35 M				
4. No. of Traverse point	: 08 Nos.				
5. Height of the sampling point from GL	: 7.0 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Diesel	2. Fuel consumption : 35 Lt./hr.				
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 756 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	91	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	5.30	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	1449	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm <sup>3</sup>	82.0	N.A
5.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
6.	Carbon dioxide	APHA - ORSAT	% v/v	7.6	N.A
7.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	23	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

*J. Mukherjee*  
( J. MUKHERJEE )  
Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

## TEST REPORT

No. AP-FG/15-16/05

Date: Apr 01, 2016

Page 1 of 1

<b>Issued to</b>		<b>: M/S. ALMEGA PAINTS PRIVATE LTD.</b>			
<b>Address</b>		<b>: Vill+P.O.: Tulsiberia, P.S.: Uluberia, Howrah- 711401.</b>			
Sample Description		: Stack Gas		Test Completed on : 29.03.2016	
Date & time of sampling		: 24.03.2016 at 03:45 P.M.			
<b>A. General information about stack :</b>					
1. Stack connected to		: Diesel Generator.			
2. Emission due to		: Burning of Diesel			
3. Material of construction of stack		: M.S.			
4. Shape of stack		: Circular.			
5. Whether stack is provided with permanent platform & ladder		: Sample was taken from temporary ladder.			
6. Generator capacity		: 160 KVA (2)			
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack		(a) from ground level : 6.09 M		(b) from roof level : ---	
2. Diameter of the stack		(a) at bottom : ---		(b) at top : ---	
3. Diameter of the stack at sampling point		: 0.15 M			
4. No. of Traverse point		: 4 Nos.			
5. Height of the sampling point from GL		: 4.5 M			
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Diesel		2. Fuel consumption : 24 Lt./hr.			
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 754 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per - Environment (Protection) Amendment Rules 2002, for 50 kw - ≤ 176 kw
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	151	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	8.83	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	379	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm <sup>3</sup>	97.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	68.0	
			gm/kw-hr	0.20	9.2
6.	Carbon monoxide	By NDIR	mg/Nm <sup>3</sup>	139	
			gm/kw-hr	0.41	3.5
7.	Carbon dioxide	APHA - ORSAT	% v/v	6.6	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	46	
			gm/kw-hr	0.14	0.3
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

(J. MUKHERJEE)

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

## TEST REPORT

No. AP-FG/15-16/06

Date: Apr 01, 2016

Page 1 of 1

<b>Issued to</b>		: M/S. ALMEGA PAINTS PRIVATE LTD.			
<b>Address</b>		: Vill+P.O.: Tulsiberia, P.S.: Uluberia, Howrah- 711401.			
<b>Sample Description</b>		: Stack Gas		<b>Test Completed on</b> : 29.03.2016	
<b>Date &amp; time of sampling</b>		: 24.03.2016 at 04:25 P.M.			
<b>A. General information about stack :</b>					
1.	Stack connected to	: Diesel Generator.			
2.	Emission due to	: Burning of Diesel			
3.	Material of construction of stack	: M.S.			
4.	Shape of stack	: Circular.			
5.	Whether stack is provided with permanent platform & ladder	: Sample was taken from temporary ladder.			
6.	Generator capacity	: 400 KVA			
<b>B. Physical characteristics of stack :</b>					
1.	Height of the stack	(a) from ground level : 7.62 M	(b) from roof level : ---		
2.	Diameter of the stack	(a) at bottom : ---	(b) at top : ---		
3.	Diameter of the stack at sampling point	: 0.15 M			
4.	No. of Traverse point	: 4 Nos.			
5.	Height of the sampling point from GL	: 5.0 M			
<b>C. Analysis / Characteristic of stack :</b>					
1.	Fuel used	: Diesel		2. Fuel consumption : 50 Lt./hr.	
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 756 mmHg					
Sl.No	Test Parameters	Test Method	Unit	Results	Norms as per Environment (Protection) Amendment Rules 2002, for 176 kw- ≤ 800 kw
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	167	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	10.16	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	414	N.A
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm <sup>3</sup>	122.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	79.0	
6.	Carbon monoxide	By NDIR	gm/kw-hr	0.10	9.2
			mg/Nm <sup>3</sup>	135	
7.	Carbon dioxide	APHA - ORSAT	gm/kw-hr	0.17	3.5
			% v/v	7.6	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	36	
			gm/kw-hr	0.05	0.3
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

(J. MUKHERJEE)

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

## TEST REPORT

### SAMPLE DRAWN BY US:

NO. E(D)/15-16/08

Date: 30 March 2016

Page 1 of 1

Issued to : M/s. ALMEGA PAINTS PRIVATE LTD.,  
Vill. & P.O. : Tulsiberia, P.S. Uluberia, Dist. Howrah  
Description of Sample : Effluent  
Collection Source : Domestic Effluent  
Date of Sample collection : 24.03.2016  
Analysis completed on : 29.03.2016

Sample collection Procedure : IS : 3025 ( Part -1) - 1987  
Mode of Sampling : Grab  
Sample condition during sampling : Temperature : 29°C, Transported in Ice box

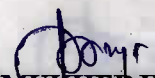
### TEST FINDINGS:

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms prescribed by W.B.P.C.B.
1.	pH Value	APHA 22nd edition- 4500 H+B	...	7.6	5.5 - 9.0
2.	Total Suspended Solids	APHA 22nd edition 2540D	mg/l	BDL	100 (Max.)
3.	Oil and Grease	APHA 22nd edition 5520B	mg/l	BDL	10 (Max.)
4.	Biochemical Oxygen Demand for 3 days at 27°C	I.S. 3025 (Part - 44) - 1993	mg/l	5.4	30 (Max.)
5.	Chemical Oxygen Demand	APHA 22nd edition 5220B	mg/l	20	250 (Max.)

Remarks: The sample of effluent complies to the prescribed limits of W.B.P.C.B. in respect of above mentioned parameters.

Note: BDL - Below Detection Limit.

Detection Limit of T.S.S. .. 10 mg/l., Oil & Grease .. 6 mg/l.

  
( J. MUKHERJEE )  
Quality Manager  
Authorised Signatory

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CIN : U51109WB1931PTC007007

## TEST REPORT

SAMPLE DRAWN BY US:

NO. E(D)/15-16/07

Date: 30 March 2016

Page 1 of 1

Issued to : M/s. ALMEGA PAINTS PRIVATE LTD.,  
Vill. & P.O. : Tulsiberia, P.S. Uluberia, Dist. Howrah  
Description of Sample : Effluent  
Collection Source : Industrial Effluent  
Date of Sample collection : 24.03.2016  
Analysis completed on : 29.03.2016

Sample collection Procedure : IS : 3025 (Part -1) - 1987  
Mode of Sampling : Grab  
Sample condition during sampling : Temperature : 27°C, Transported in Ice box

### TEST FINDINGS:

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms prescribed by W.B.P.C.B.
1.	pH Value	APHA 22nd edition 4500-H+B	..	7.5	6.0 - 8.5
2.	Total Suspended Solids	APHA 22nd edition 2540D	mg/l	10	100 (Max.)
3.	Oil and Grease	APHA 22nd edition 5520B	mg/l	BDL	10 (Max.)
4.	Biochemical Oxygen Demand for 3 days at 27°C	I.S. 3025 (Part - 44) - 1993	mg/l	15	50 (Max.)
5.	Chemical Oxygen Demand	APHA 22nd edition 5220B	mg/l	80	250 (Max.)
6.	Lead as Pb	APHA 22nd edition 3111B	mg/l	BDL	0.1 (Max.)
7.	Hexavalent Chromium as Cr <sup>+6</sup>	APHA 22nd edition 3500-Cr B	mg/l	BDL	0.1 (Max.)
8.	Total Chromium as Cr	APHA 22nd edition 3111B	mg/l	BDL	2.0 (Max.)
9.	Copper as Cu	APHA 22nd edition 3111B	mg/l	BDL	2.0 (Max.)
10.	Nickel as Ni	APHA 22nd edition 3111B	mg/l	BDL	2.0 (Max.)
11.	Zinc as Zn	APHA 22nd edition 3111B	mg/l	BDL	2.0 (Max.)
12.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 22nd edition 5530C	mg/l	BDL	1.0 (Max.)
13.	Total Metals	APHA 22nd edition 3111B	mg/l	BDL	7.0 (Max.)

Remarks: The sample of effluent complies to the prescribed limits of W.B.P.C.B. in respect of above mentioned parameters.

Note: BDL - Below Detection Limit.

Detection Limit of Pb, Cr, Ni .. 0.1 mg/l., Cu.. 0.05 mg/l., Oil & Grease .. 6 mg/l.,  
C<sub>6</sub>H<sub>5</sub>OH .. 0.01 mg/l., Cr<sup>+6</sup> .. 0.04 mg/l., Zn .. 0.05 mg/l., Total Metal .. 0.1 mg/l.

(J. MUKHERJEE)  
Quality Manager  
Authorised Signatory

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