

WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak,
Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602. Phone: (03224)-276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory::

1. Name of Industry		M/s. Tata Metaliks Ltd.	
2. Address		Samraipur, Kharagpur, Paschim Medinipur-721301	
3. Category & Type		Spl. Red	
4. Sampling Date		09.04.2013	
5. Duration of Sampling		25 minutes	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		45.0 m	
8. Cross section of Stack at sampling point(m ²)		3.144 m ²	
9. Stack connected to		MBF # 2 (Stove- 3 nos.)	
10. Emission due to(Furnace /Boiler)		Combustion of BFG	
11. Average operational hours of boiler furnace (per month)		720 hrs.	
12. APC System(if any)		Nil	
13. Working load of source(MT/hr)		-	
14. Fuel used		BFG	
15. Rated Fuel consumption (Kg or t/hr)		-	
16. Working Fuel consumption (Kg or t/hr)		18000 Nm ³ / hr.	
17. Nature of Furnace /Boiler			
18. Flue gas Temp(^o C)		240 ^o C.	
19. Flue gas velocity	8.08 m/ sec.	20. Volume of Flue gas drawn in lit(m ³)	1.0 m ³ .
21. Corrected flue gas volume(Nm ³)	0.9270 Nm ³	22. Percentage of CO ₂	9.4 %
23. To be compensated at (% ,if required)			
24. Initial wt of thimble (gm)	1.3977	25. Final wt of thimble (gm)	1.4113
26. Wt. Of PM (mg)	13.6	27. Particulate matter (mg/Nm ³)	14.67
28. Barometric Pressure Head	750 mm of Hg.	29. Diameter of the nozzle	12.7 mm
30. Others:			
32. Sampled by		31. Thimble Number	GF- 689
		S.Dutta, AEE, HRO	

Manna
Junior Scientist 08/5/13

M/S 08/05/13
Scientist
Haldia Regional Laboratory
W.B.P.C.B.

- Copy to : 1. Chief Engineer, O & E, WBPCB.
2. Sr. Environmental Engineer Camac Street, WBPCB.
3. Environmental Engineer, H.R.O, WBPCB.

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Analysis Done at Haldia Regional Laboratory::

1. Name of Industry		M/s. Tata Metaliks Ltd.	
2. Address		Samraipur, Kharagpur, Paschim Medinipur-721301	
3. Category & Type		Spl. Red	
4. Sampling Date		09.04.2013	
5. Duration of Sampling		40 minutes	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		45 m	
8. Cross section of Stack at sampling point(m ²)		5.3133 m ²	
9. Stack connected to		Boiler no. 1 & 2 (attached with common stack)	
10. Emission due to(Furnace /Boiler)		Combustion of BFG	
11. Average operational hours of boiler furnace (per month)		720 hrs.	
12. APC System(if any)		Nil	
13. Working load of source(MT/hr)		Boiler no. 1- 18 TPH & no. 2 -20tph	
14. Fuel used		BFG	
15. Rated Fuel consumption (Kg or t/hr)		-	
16. Working Fuel consumption (Kg or t/hr)		No.1- 21038 Nm ³ & no.2- 21033 Nm ³	
17. Nature of Furnace /Boiler			
18. Flue gas Temp(^o C)		150 ^o C.	
19. Flue gas velocity	7.64 m/ sec.	20. Volume of Flue gas drawn in lit(m ³)	1.04 m ³ .
21. Corrected flue gas volume(Nm ³)	0.9671 Nm ³	22. Percentage of CO ₂	10.2 %
23. To be compensated at (% ,if required)		12 % CO ₂ Compensated	
24. Initial wt of thimble (gm)	1.4028	25. Final wt of thimble (gm)	1.4232
26. Wt. Of PM (mg)	20.4	27. Particulate matter (mg/Nm ³)	21.09 at 10.2 % CO ₂ & 24.82 at 12% CO ₂
28. Barometric Pressure Head	750 mm of Hg.	29. Diameter of the nozzle	9.53 mm
30. Others:			
32. Sampled by		31. Thimble Number	GF- 684
		S.Dutta, AEE, HRO	

Maana
Junior Scientist

08/5/13

S.M. 08/05/13
Scientist
Scientist

Haldia Regional Laboratory
W.B.P.C.B.

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Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory::

1. Name of Industry		M/s. Tata Metaliks Ltd.	
2. Address		Samraipur, Kharagpur, Paschim Medinipur-721301	
3. Category & Type		Spl. Red	
4. Sampling Date		09.04.2013	
5. Duration of Sampling		30 minutes	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		45.0 m	
8. Cross section of Stack at sampling point(m ²)		3.144 m ²	
9. Stack connected to		MBF # 1 (Stove- 3 nos.)	
10. Emission due to(Furnace /Boiler)		Combustion of BFG	
11. Average operational hours of boiler furnace (per month)		720 hrs.	
12. APC System(if any)		Nil	
13. Working load of source(MT/hr)			
14. Fuel used		BFG	
15. Rated Fuel consumption (Kg or t/hr)		-	
16. Working Fuel consumption (Kg or t/hr)		18000 Nm ³ / hr.	
17. Nature of Furnace /Boiler			
18. Flue gas Temp(^o C)		315 ^o C.	
19. Flue gas velocity	7.82 m/ sec.	20. Volume of Flue gas drawn in lit(m ³)	1.02 m ³ .
21. Corrected flue gas volume(Nm ³)	0.9455 Nm ³	22. Percentage of CO ₂	9.0 %
23. To be compensated at (% ,if required)			
24. Initial wt of thimble (gm)	1.4753	25. Final wt of thimble (gm)	1.4766
26. Wt. Of PM (mg)	1.3	27. Particulate matter (mg/Nm ³)	1.37
28. Barometric Pressure Head	750 mm of Hg.	29. Diameter of the nozzle	12.7 mm
30. Others:			
32. Sampled by		31. Thimble Number	GF- 688
		S.Dutta, AEE, HRO	

Chauhan
Junior Scientist 08/5/13

M. S. Ghosh
Scientist
Scientist
Haldia Regional Laboratory
W.B.P.C.B.

- Copy to : 1. Chief Engineer, O & E, WBPCB.
2. Sr. Environmental Engineer Camac Street, WBPCB.
3. Environmental Engineer, H.R.O, WBPCB.



(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)
HPL Link Road, Basudevpur, P.O.- Kharjanchak, Haldia, Dist.- Purba Medinipur, PIN- 721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Report No. : ICI/A/H/13-14/632
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur. Pin. - 721 301
Sample Description : Stack Air
Location : Common Stack of Boiler No. 1 & 2
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part 3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.

Sample Ref. No. : A/11/632
Report Date : 29.07.13
Date of Sampling : 26.07.13
Analysis Started on : 29.07.13
Analysis Completed on : 29.07.13
Time of Sampling : 10:00 AM

A.) GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant			
Stack attached to	Common Stack of Boiler No. 1 & 2	Shape of Stack	Circular
Emission due to	Combustion of BFG	Material of Construction	M.S.
Fuel Used	BFG	Stack ID at sampling point (M)	2.6
Rated Fuel Consumption	25000 M ³ /Hr. (each)	At Bottom (M)	4.0
Working Fuel Consumption		At Top (M)	2.6
Calorific Value(Kcal/kg)		Height Details :	
Sulphur Content (% by Wt)		a) Total Ht. Of stack from G.L.(M)	45.0
Ash Content (% by Wt.)		b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Nil	c) Ht. of sampling port from G.L.(M)	36.0
Whether Stack is provided with permanent Platform / Ladder	Yes	d) Ht. of port from disturbance zone (M)	-

B.) PHYSICAL DATA:

Flue Gas Temperature (°C)	132	Steam Generation Capacity :	
Barometric Pressure, (mm Hg)	748		a) Rated
Velocity of Gas flow (m/s)	6.50	Load :	
Quantity of Gas flow (Nm ³ /hr)	87509.48		a) Rated
Pressure	-	b) Running	

C.) RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	58.0 at 10.4 %CO ₂
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	67.0
03.	Sulphur di-oxide (mg/ Nm ³)	102.71
04.	NO _x (mg/m ³)	83.76
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	10.4

Note : For trial Check as relining of blast furnace was carried out, sampling was taken
End of Report

Checked By

For, Indicative Consultant India

Parbati Ghosh
(Manager Laboratory)
Signatory Authority

Note : 1 Test results shown in this test report relate only to the item tested
2 This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory
3 Retention period of tested samples (Thimble) is 6 months from the date of issue of test report unless otherwise
4 All general informations of stack are provided by the party

Manager-Lab., Div.
Indicative Consultant India



ISO/IEC 17025:2005
Certificate No.
T-1835 (Chemical)
NABL ACCREDITED LABORATORY

S.S.I. Reg. No. 190192100010

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(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevpur, P.O.- Khanjanchak, Haldia, Dist.- Purba Medinipur, PIN- 721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/13-14/633
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301
Sample Description : Stack Air
Location : D. G. No. - 1 (1250 KVA)
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.

Sample Ref. No. : A/1/633
Report Date : 29.07.13
Date of Sampling : 26.07.13
Analysis Started on : 29.07.13
Analysis Completed on : 29.07.13
Time of Sampling : 03:00 PM

Towards Sustainable Growth

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	
Stack attached to	D. G. No. - 1 (1250 KVA)	Material of Construction	Circular M.S.
Emission due to	Combustion of H.S.D	Stack ID at sampling point (M)	0.2
Fuel Used	H.S.D	At Bottom (M)	0.2
Rated Fuel Consumption	190 Lit/Hr.	At Top (M)	0.2
Working Fuel Consumption	-	Height Details :	
Calorific Value(Kcal/kg)	10800	a) Total Ht. Of stack from GI.(M)	19.5
Sulphur Content (% by Wt)	0.05	b) Total Ht. Of stack from RI.(M)	-
Ash Content (% by Wt.)	0.01	c) Ht. of sampling port from GI.(M)	12.5
Pollution Control Device	Nil	d) Ht. of port from disturbance zone (M)	-

Whether Stack is provided with permanent Platform / Ladder : Yes

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	248	D. G. Capacity :	
Barometric Pressure.(mm Hg)	748	a) Rated	-
Velocity of Gas flow (m/s)	14.40	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	906.89	Load :	
Pressure	-	a) Rated	1250 KVA
		b) Running	-

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	-
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	81.0
03.	Sulphur di-oxide (mg/ Nm ³)	-
04.	NOx (mg/m ³)	158.23
05.	CO % (V/V)	91.87
06.	CO ₂ % (V/V)	< 0.2
		6.6

End of Report

Checked By *Manoj Roy*

For, Indicative Consultant India

Parbati Goudi
Parbati Goudi
(Manager Laboratory)
Signatory Authority

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4 All general informations of stack are provided by the party.

Manager-lab, Env. Div.
Indicative Consultant India



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ISO/IEC 17025:2005
 Certificate No.
 T-1835 (Chemical)
 NABL ACCREDITED LABORATORY

S.S.I. Reg. No. 190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevapur, P.O.- Khanjanchak, Haldia, Dist.- Purba Medinipur, PIN- 721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
 GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/13-14/634
 Issued To : M/s. Tata Metaliks Ltd.
 Address : Samraipur, Kharagpur,
 Paschim Medinipur, Pin. - 721 301

Sample Ref. No. : A/H/634
 Report Date : 29.07.13
 Date of Sampling : 26.07.13
 Analysis Started on : 29.07.13
 Analysis Completed on : 29.07.13
 Time of Sampling : 02:00 PM

Sample Description : Stack Air
 Location : D. G. No. - 2 (1250 KVA)
 Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
 Sampling Method : CPCB, Emission Regulation (Part III)
 Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. 7.

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	
Stack attached to	D. G. No. - 2 (1250 KVA)	Material of Construction	Circular
Emission due to	Combustion of H.S.D		M.S
Fuel Used	H.S.D	Stack ID at sampling point (M)	0.2
Rated Fuel Consumption	190 Lit/Hr.	At Bottom (M)	0.2
Working Fuel Consumption		At Top (M)	0.2
Calorific Value(Kcal/kg)	10800	Height Details :	
Sulphur Content (% by Wt)	0.05	a) Total Ht. Of stack from GL(M)	19.5
Ash Content (% by Wt.)	0.01	b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Nil	c) Ht. of sampling port from GL(M)	12.5
Whether Stack is provided with permanent Platform / Ladder	Yes	d) Ht. of port from disturbance zone (M)	-

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	254	D. G. Capacity :	a) Rated	-
Barometric Pressure,(mm Hg)	748		b) Running	-
Velocity of Gas flow (m/s)	14.88	Load :	a) Rated	1250 KVA
Quantity of Gas flow (Nm ³ /hr)	926.45		b) Running	-
Pressure	-			

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	-
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	59.0
03.	Sulphur di-oxide (mg/ Nm ³)	-
04.	NOx (mg/m ³)	155.45
05.	CO % (V/V)	94.10
06.	CO ₂ % (V/V)	<0.2
		6.8

Checked By: *Manoj Ray*

End of Report

For, Indicative Consultant India

Parbati Gorai
 Parbati Gorai
 (Manager Laboratory)
 Signature: *Parbati Gorai*
 Manager-lab, Env. Div.
 Indicative Consultant India

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 4. All general informations of stack are provided by the party

Towards Sustainable Growth



ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/13-14/891
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301

Sample Ref. No. : A/H/891
Report Date : 08.10.13
Date of Sampling : 30.09.13
Analysis Started on : 07.10.13
Analysis Completed on : 07.10.13
Time of Sampling : 02:15 PM

Sample Description : Stack Air
Location : MBF # 2
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	: MBF # 2 (Stove - 3 Nos.)	Material of Construction	: M.S
Emission due to	: Combustion of BFG	Stack ID at sampling point (M)	: 2.0
Fuel Used	: BFG	At Bottom (M)	: 3.2
Rated Fuel Consumption	: -	At Top (M)	: 2.0
Working Fuel Consumption	: 18500 Nm ³ /Hr.	Height Details :	
Calorific Value(Kcal/kg)	: -	a) Total Ht. Of stack from GL(M)	: 45.0
Sulphur Content (% by Wt)	: -	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	: -	c) Ht of sampling port from GL(M)	: 36.2
Pollution Control Device	: Nil	d) Ht of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform / Ladder : Yes			

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 282	Steam Generation Capacity :	
Barometric Pressure,(mm Hg)	: 753	a) Rated	: -
Velocity of Gas flow (m/s)	: 8.76	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 51572.24	Load :	
Pressure	: -	a) Rated	: -
		b) Running	: -

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	7.0
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	92.50
04.	NOx (mg/m ³)	71.22
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	9.8

----- End of Report -----

Manoj P

Checked By

For, Indicative Consultant India

Parbati Gohu
(Manager Laboratory)
Signatory Authority

Parbati Gohu
Manager-lab, Env. Div.
Indicative Consultant India

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4. All general informations of stack are provided by the party.

Towards Sustainable Growth



ISO/IEC 17025:2005
 Certificate No.
 T-1835 (Chemical)
 NABL ACCREDITED LABORATORY



S.S.I. Reg. No. 190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevpur, P.O. - Khanjanchak, Haldia, Dist. - Purba Medinipur, PIN- 721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
 GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/H/13-14/889	Sample Ref. No.	: A/H/889
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 08.10.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 30.09.13
Sample Description	: Stack Air	Analysis Started on	: 07.10.13
Location	: Common Stack of Boiler No. 1 & 2	Analysis Completed on	: 07.10.13
Sample Condition	: In Glass Microfibre Thimble & Plastic Bottle	Time of Sampling	: 10:30 AM
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.		

A.1 GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	: Common Stack of Boiler No. 1 & 2	Material of Construction	: M.S.
Emission due to	: Combustion of BFG	Stack ID at sampling point (M)	: 2.6
Fuel Used	: BFG	At Bottom (M)	: 4.0
Rated Fuel Consumption	: 25000 M ³ /Hr. (each)	At Top (M)	: 2.6
Working Fuel Consumption	: Boiler No. - 1 (16000 m ³ /Hr. Boiler No. - 2 (22000 m ³ /Hr.)	Height Details :	
Calorific Value(Kcal/kg)	: -	a) Total Ht. Of stack from GL(M)	: 45.0
Sulphur Content (% by Wt)	: -	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	: -	c) Ht. of sampling port from GL(M)	: 36.0
Pollution Control Device	: Nil	d) Ht. of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform / Ladder : Yes			

B.1 PHYSICAL DATA:

Flue Gas Temperature (°C)	: 140	Steam Generation Capacity :	
Barometric Pressure,(mm Hg)	: 753	a) Rated	: 15 TPH & 22 TPH
Velocity of Gas flow (m/s)	: 7.56	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 99919.64	Load : a) Rated	: -
Pressure	: -	b) Running	: -

C.1 RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	12.0 at 10.8 %CO ₂
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	13.0
03.	Sulphur di-oxide (mg/ Nm ³)	106.63
04.	NOx (mg/m ³)	73.50
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	10.8

End of Report

Mojib Roy
 Checked By

For, Indicative Consultant India

Parbati Golui
 Parbati Golui
 (Manager Laboratory)
 Signatory Authority

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 4. All general informations of stack are provided by the party.

Parbati Golui
 Manager-lab, Env. Div.
 Indicative Consultant India



ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : IC/A/H/13-14/890
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301

Sample Ref. No. : A/H/890
Report Date : 08.10.13
Date of Sampling : 30.09.13
Analysis Started on : 07.10.13
Analysis Completed on : 07.10.13
Time of Sampling : 12:15 PM

Sample Description : Stack Air
Location : MBF # 1
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.

A.] GENERAL INFORMATION ABOUT STACK:

<u>Particulars of the Plant</u>			
Stack attached to	: MBF # 1 (Stove - 3 Nos.)	Shape of Stack	: Circular
Emission due to	: Combustion of BFG	Material of Construction	: M.S
Fuel Used	: BFG	Stack ID at sampling point (M)	: 2.0
Rated Fuel Consumption	: -	At Bottom (M)	: 3.2
Working Fuel Consumption	: 18500 Nm ³ /Hr.	At Top (M)	: 2.0
Calorific Value(Kcal/kg)	: -	Height Details :	
Sulphur Content (% by Wt)	: -	a) Total Ht. Of stack from GL(M)	: 45.0
Ash Content (% by Wt.)	: -	b) Total Ht. Of stack from RL(M)	: -
Pollution Control Device	: Nil	c) Ht of sampling port from GL(M)	: 36.2
Whether Stack is provided with permanent Platform / Ladder	: Yes	d) Ht of port from disturbance zone (M)	: -

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 300	Steam Generation Capacity :	
Barometric Pressure,(mm Hg)	: 753	a) Rated	: -
Velocity of Gas flow (m/s)	: 8.41	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 47924.53	Load : a) Rated	: -
Pressure	: -	b) Running	: -

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	9.0
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	91.48
04.	NOx (mg/m ³)	71.96
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	9.6

End of Report

May Rj

Checked By

For, Indicative Consultant India

Parbati Golui
Parbati Golui
(Manager Laboratory)
Signatory Authority

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Parbati Golui
Manager-lab, Env. Div.
Indicative Consultant India



ISO/IEC 17025:2005
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(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevpur, P.O.- Khanjanchak, Haldia, Dist.- Purba Medinipur, PIN- 721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/H/13-14/639	Sample Ref. No.	: A/H/639
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 30.07.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 25.07.13
Sample Description	: Work zone Air	Analysis Started on	: 29.07.13
Location	: Cast House # 1	Analysis Completed on	: 29.07.13
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998		

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
09:00 AM to 05:00 PM	0.923	0.311	0.030	0.046	31.0

Limit: (mg/m³): SPM - 10, RPM - 5, SO₂ - 5, NO₂ - 6
Ref: Factories (Amendment) Act 1987, Sec. 45 (2nd Schedule)

[Signature]
Checked By

For, Indicative Consultant India
[Signature]
Parbati Golui
(Manager-Laboratory)
Signatory Authority
Parbati Golui
Manager-lab, Env. Div.
Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/13-14/640
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301
Sample Description : Work zone Air
Location : Cast House # 2
Sample Condition : In Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998

Sample Ref. No. : A/H/640
Report Date : 30.07.13
Date of Sampling : 25.07.13
Analysis Started on : 29.07.13
Analysis Completed on : 29.07.13

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
09:15 AM to 05:15 PM	0.995	0.298	0.029	0.048	31.0

----- End of Report -----

Limit: (mg/m³): SPM - 10, RPM - 5, SO₂-5, NO₂- 6

Ref: Factories (Amendment) Act 1987, Sec.45 (2nd Schedule)

Checked By

For, Indicative Consultant India

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Signatory Authority

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/H/13-14/641	Sample Ref. No.	: A/H/641
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 30.07.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 25.07.13
Sample Description	: Work zone Air	Analysis Started on	: 29.07.13
Location	: Bunker House # 1	Analysis Completed on	: 29.07.13
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998		

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
09:25 AM to 05:25 PM	0.953	0.242	0.030	0.050	31.0

----- End of Report -----

Limit: (mg/m³): SPM - 10, RPM - 5, SO₂ - 5, NO₂ - 6
 Ref: Factories (Amendment) Act 1987, Sec. 45 (2nd Schedule)

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TEST REPORT

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Report No.	: ICI/A/H/13-14/642	Sample Ref. No.	: A/H/642
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 30.07.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 26.07.13
Sample Description	: Work zone Air	Analysis Started on	: 29.07.13
Location	: Bunker House # 2	Analysis Completed on	: 29.07.13
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998		

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
09:30 AM to 05:30 PM	1.487	0.512	0.030	0.046	31.0

----- End of Report -----
Limit: (mg / m³): SPM - 10, RPM - 5, SO₂-5, NO₂- 6
Ref: Factories (Amendment) Act 1987, Sec.45 (2nd Schedule)

[Signature]
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For, Indicative Consultant India

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Signatory Authority

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/H/13-14/643	Sample Ref. No.	: A/H/643
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 30.07.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 26.07.13
Sample Description	: Work zone Air	Analysis Started on	: 29.07.13
Location	: SPCM # 1	Analysis Completed on	: 29.07.13
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998		

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
09:45 AM to 05:45 PM	0.902	0.207	0.028	0.049	28.0

----- End of Report -----

Limit: (mg/m³): SPM - 10, RPM - 5, SO₂ - 5, NO₂ - 6

Ref: Factories (Amendment) Act 1987, Sec.45 (2nd Schedule)

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For, Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/H/13-14/644	Sample Ref. No.	: A/H/644
Issued To	: M/s. Tata Metaliks Ltd.	Report Date	: 30.07.13
Address	: Samraipur, Kharagpur, Paschim Medinipur, Pin. - 721 301	Date of Sampling	: 26.07.13
Sample Description	: Work zone Air	Analysis Started on	: 29.07.13
Location	: SPCM # 2	Analysis Completed on	: 29.07.13
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 4) 1999, IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998		

Towards Sustainable Growth

Time	Concentration (mg/m ³)				Ambient Temperature in °C (Average)
	SPM	RPM	SO ₂	NO ₂	
10:00 AM to 06:00 PM	1.149	0.412	0.030	0.048	28.0

Limit: (mg/m³): SPM - 10, RPM - 5, SO₂ - 5, NO₂ - 6
Ref: Factories (Amendment) Act 1987, Sec. 45 (2nd Schedule)

[Signature]
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For, Indicative Consultant India

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/13-14/TML/058
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301

Sample Ref. No. : TML/058
Report Date : 31.07.13
Date of Sampling : 25.07.13
to
26.07.13
Analysis Started on : 29.07.13
Analysis completed on : 31.07.13

Towards Sustainable Growth

Sample Description : Ambient Air
Location : Guest House
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006, NAAQS Monitoring & Analysis Guide Line Volume - 1, (May - 2011), IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998.
Ambient Temperature : 29.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
09:15 AM to 05:15 PM	106.38	64.20	23.02	39.63
05:25 PM to 01:25 AM	92.73	53.78	19.73	37.20
01:35 AM to 09:35 AM	86.97	55.83	20.83	38.00

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
PM₁₀ - 100 $\mu\text{g}/\text{m}^3$, PM_{2.5} - 60 $\mu\text{g}/\text{m}^3$, SO₂ - 80 $\mu\text{g}/\text{m}^3$, NO₂ - 80 $\mu\text{g}/\text{m}^3$

Ref. National Ambient Air Quality published by Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s) SO384(E), dtd 1st April, 1994 and S.O. 935(E), dtd 14th October 1998

Checked By

For, Indicative Consultant India

Parbati Golui
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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL AND MECHANICAL TESTING

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/13-14/TML/059
Issued To : M/s. Tata Metaliks Ltd.
Address : Samraipur, Kharagpur,
Paschim Medinipur, Pin. - 721 301

Sample Ref. No. : TML/059
Report Date : 31.07.13
Date of Sampling : 25.07.13
to
26.07.13

Analysis Started on : 29.07.13
Analysis completed on : 31.07.13

Towards Sustainable Growth

Sample Description : Ambient Air
Location : Near ADM Building
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006, NAAQS Monitoring & Analysis Guide Line Volume - I, (May - 2011), IS: 5182 (Part - 2), 2001, IS: 5182 (Part - 6), 1975, Reaffirmed 1998.

Ambient Temperature : 29.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
09:00 AM to 05:00 PM	108.84	57.72	24.11	42.05
05:15 PM to 01:15 AM	94.75	51.85	20.83	38.00
01:30 AM to 09:30 AM	86.70	47.80	18.63	39.63

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
PM₁₀: 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}: 60 $\mu\text{g}/\text{m}^3$, SO₂: 80 $\mu\text{g}/\text{m}^3$, NO₂: 80 $\mu\text{g}/\text{m}^3$

Ref. National Ambient Air Quality published by Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s).SO384(E), dt 11th April, 1994 and S. O. 935(E), dt. 14th October 1998

Checked By

For, Indicative Consultant India

Parbati Golui
(Manager-Laboratory)
Signatory Authority

Parbati Golui
Manager-lab, Env. Div.
Indicative Consultant India

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S.S.I. Reg. No.-
190192100010

INDICATIVE CONSULTANT INDIA

(CONSULTANT SURVEYOR & REGD. TEST HOUSE)

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/292
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301
Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : ADM Building
Limit : Day Time : 75 dB (A)

Sample Ref. No. : SL/292
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Towards Sustainable Growth

*The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986*

Monitoring Details :

Height from the floor : 1.5 M Starting Time : 11:30 AM
Distance of Source : 3.0 M Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10^(Li/10)	Sum of ft X 10^(Li/10)
1	60.1	0.1111111111	102329.299	880711.023
2	60.2		104712.855	
3	59.6		91201.084	
4	59.4		87096.359	
5	58.7		74131.024	
6	59.3		85113.804	
7	58.5		70794.578	
8	58.3		67608.298	
9	60.0		100000.000	
10	59.9		97723.722	

* The equivalent Noise Level Leq.

59.45

dB(A)

Maximum dB(A): 60.2

Minimum dB(A): 58.3

End of Report

Checked By

For, INDICATIVE CONSULTANT INDIA

Parbati Golui

(Manager-Laboratory)

Signatory Authority

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Kolkata Lab : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kol -700 142, Mob.: 9339789157, 9836470938, 7797506890
Corp. Office : 23/3, Mahendra Banerjee Road, Kolkata - 60, Mob. : 9434017584, 9830964194
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S.S.I. Reg. No.-
190192100010

INDICATIVE CONSULTANT INDIA

(CONSULTANT SURVEYOR & REGD. TEST HOUSE)
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indicativeconsultantindia@gmail.com
Website: www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/293
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301

Sample Ref. No. : SI/293
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : ADM Building
Limit : Night Time : 70 dB (A)

*The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986*

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 10:30 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	56.4	0.1111111111	43651.583	393290.418
2	56.5		44668.359	
3	52.3		16982.437	
4	57.6		57543.994	
5	57.2		52480.746	
6	55.1		32359.366	
7	55.3		33884.416	
8	55.6		36307.805	
9	55.4		34673.685	
10	56.1		40738.028	

* The equivalent Noise Level Leq. 55.95 dB(A)

Maximum dB(A): 57.6

Minimum dB (A): 52.3

End of Report

Checked By

For, INDICATIVE CONSULTANT INDIA

Parbati Golui

(Manager-Laboratory)

Signatory Authority

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Manager-Lab, Env. Div.
Indicative Consultant India

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Towards Sustainable Growth



S.S.I. Reg. No.-
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INDICATIVE CONSULTANT INDIA

(CONSULTANT SURVEYOR & REGD. TEST HOUSE)

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indicativeconsultantindia@gmail.com

Website: www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/294
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301

Sample Ref. No. : SI/294
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : Material Gate
Limit : Day Time : 75 dB (A)

*The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986*

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 11:00 AM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Towards Sustainable Growth

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^(Li/10)	Sum of ft X 10 ^(Li/10)
1	68.4	0.1111111111	691830.971	4162343.702
2	70.1		1023292.992	
3	70.6		1148153.621	
4	60.2		104712.855	
5	61.3		134896.288	
6	61.2		131825.674	
7	62.5		177827.941	
8	62.6		181970.086	
9	61.5		141253.754	
10	66.3		426579.519	

* The equivalent Noise Level Leq.

66.19

dB(A)

Maximum dB(A): 70.6

Minimum dB (A): 60.2

End of Report

Checked By

For, INDICATIVE CONSULTANT INDIA

Parbati Golui

(Manager-Laboratory)

Signatory Authority

Parbati Golui
Manager-Lab. Exp. Div.
Indicative Consultant India

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Kolkata Lab : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kol -700 142, Mob.: 9339789157, 9836470938, 7797506970
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(CONSULTANT SURVEYOR & REGD. TEST HOUSE)

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E-mail: jsarkar490@bsnl.in
indicativeconsultantindia@gmail.com
Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/295
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301

Sample Ref. No. : SI/295
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : Material Gate
Limit : Night Time : 70 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 10:00 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	60.1	0.1111111111	102329.299	957993.104
2	60.3		107151.931	
3	59.3		85113.804	
4	59.7		93325.430	
5	58.3		67608.298	
6	59.6		91201.084	
7	60.8		120226.443	
8	60.6		114815.362	
9	59.5		89125.094	
10	59.4		87096.359	

* The equivalent Noise Level Leq,

59.81

dB(A)

Maximum dB(A): 60.8
Minimum dB (A): 58.3

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End of Report

For, INDICATIVE CONSULTANT INDIA

Parbatil Golui
(Manager-Laboratory)

Signatory Authority
Parbatil Golui
Manager-lab. Env. Div.
Indicative Consultant India
Laboratory

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Kolkata Lab : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kol -700 142, Mob.: 9339789157, 9836470938, 7797506970
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190192100010

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(CONSULTANT SURVEYOR & REGD. TEST HOUSE)

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indicativeconsultantindia@gmail.com
Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/296
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301

Sample Ref. No. : SL/296
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : Near Cycle Stand
Limit : Day Time : 75 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 12:10 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10^(Li/10)	Sum of ft X 10^(Li/10)
1	60.7	0.1111111111	117489.755	2346603.043
2	60.4		109647.820	
3	61.2		131825.674	
4	62.3		169824.365	
5	63.3		213796.209	
6	66.7		467735.141	
7	65.3		338844.156	
8	64.3		269153.480	
9	64.6		288403.150	
10	63.8		239883.292	

* The equivalent Noise Level Leq. 63.70 dB(A)

Maximum dB(A): 66.7
Minimum dB (A): 60.4

End of Report

Checked By

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager-Laboratory)
Signatory Authority

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Kolkata Lab : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kol -700 142, Mob.: 9339789157, 9836470938, 7797506970
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Website: www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/13-14/297
Issued To : M/s. Tata Metaliks Ltd.
Address : P.O.- Kharagpur, Samarium,
Paschim Medinipur - 721 301

Sample Ref. No. : SL/297
Report Date : 01.08.13
Date of Monitoring : 26.07.13

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Location : Near Cycle Stand
Limit : Night Time : 70 dB (A)

*The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986*

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 11:10 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	60.1	0.111111111	102329.299	1012027.389
2	60.0		100000.000	
3	59.8		95499.259	
4	59.6		91201.084	
5	59.4		87096.359	
6	58.2		66069.345	
7	60.3		107151.931	
8	61.4		138038.426	
9	60.3		107151.931	
10	60.7		117489.755	

* The equivalent Noise Level Leq. 60.05 dB(A)

Maximum dB(A): 61.4
Minimum dB(A): 58.2

..... End of Report

Checked By

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager-Laboratory)
Signatory Authority

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Indicative Consultant India

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