

ENVIRONMENTAL MONITORING REPORT

FOR

TIDONG POWER GENERATION PVT LTD



M/TPGPL./2021/09

MARCH 2021



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI / NABET Accredited EIA Consultant at S.No.100 as per List of Accredited consultant Organizations/ Rev.66A / June 15, 2018 and MoEF & NABL approved Laboratory

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	TC-6440	

Sample Identification	:	A21032301
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	14.03.2021, 11:00 PM
End Date & Time of Sampling	:	15.03.2021, 11:00PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	ADIT-I
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	44	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	26	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	BDL*	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.58	02	IS: 5182 Part-X, 2003 NDIR spectroscopy

*BDL: Bellow Detection Limit <4.0 µg/m³


Manoranjan
 Analyzed by:





Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification	:	A21032302
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	15.03.2021, 11:05 AM
End Date & Time of Sampling	:	16.03.2021, 11:05 AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	ADIT-I
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	42	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	26	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	BDL*	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	15	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.48	02	IS: 5182 Part-X, 2003 NDIR spectroscopy

*BDL: Bellow Detection Limit <4.0 µg/m³


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Sample Identification	:	A21032303
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	14.03.2021, 01:00 PM
Start Date & Time of Sampling	:	15.03.2021, 01:00 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Dam Site
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	54	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	30	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	04	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.66	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032304
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	15.03.2021, 01:05 AM
End Date & Time of Sampling	:	16.03.2021, 01:05AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Dam Site
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	50	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	28	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	05	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.62	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032305
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	14.03.2021, 04:00 PM
Start Date & Time of Sampling	:	15.03.2021, 04:00 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Moorang Village
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	44	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	26	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	05	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	16	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.42	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032306
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	15.03.2021, 04:05 PM
End Date & Time of Sampling	:	16.03.2021, 04:05 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Moorang Village
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	40	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	22	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	04	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.48	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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 Quality Manager:

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Sample Identification	:	A21032307
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	16.03.2021, 12:00 AM
End Date & Time of Sampling	:	17.03.2021, 12:00 AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Check Post
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	64	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.66	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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 Quality Manager:

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Sample Identification	:	A21032308
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	17.03.2021, 12:05 PM
Start Date & Time of Sampling	:	18.03.2021, 12:05 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Check Post
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	60	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	36	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.58	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032309
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	16.03.2021, 01:00 AM
End Date & Time of Sampling	:	17.03.2021, 01 :00 AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Site Office
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	52	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	30	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	06	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.58	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032310
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	17.03.2021, 01 :05 PM
Start Date & Time of Sampling	:	18.03.2021, 01 :05 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Site Office
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	56	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	32	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	16	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.60	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032311
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	16.03.2021, 04:00 PM
End Date & Time of Sampling	:	17.03.2021, 04:00 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Rispa Village
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	40	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	24	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	05	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.46	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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 Analyzed by:




Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification	:	A21032312
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	17.03.2021, 04:05 PM
End Date & Time of Sampling	:	18.03.2021, 04:05 PM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Rispa Village
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	38	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	22	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	04	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.48	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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Sample Identification	:	A21032313
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	18.03.2021, 10:30 AM
Start Date & Time of Sampling	:	19.03.2021, 10:30 AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Power House
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	52	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	30	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	08	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.62	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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 Quality Manager:

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Sample Identification	:	A21032314
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	19.03.2021, 10:35 AM
Start Date & Time of Sampling	:	20.03.2021, 10:35 AM
Date of Receipt	:	23.03.2021
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Power House
Sample Submitted by	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	50	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	26	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	06	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	21	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, 2003 NDIR spectroscopy


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 Quality Manager:

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Sample Identification No.	: S21032301
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 15.03.2021
Date of Receipt	: 23.03.2021
Sample Description	: D.G.Set-500 KVA
Sample Condition	: Ok
Start Date of Analysis	: 23.03.2021
End Date of Analysis	: 30.03.2021
Date of Reporting	: 31.03.2021
Sampling Location	: Dam Site
Sample Collected By	: Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	: Stack
Stack Identification/Stack Details	: Stack attached to DG Set
Normal Operating Schedule	: 1 Hr
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 160 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 hr.
Stack Temperature (°C)	: 192°C
Ambient Temperature (°C)	: 4°C
Stack Velocity (m/sec.)	: 11.23
Quantity of Emission (Nm ³ /hrs.)	: 844.68

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM _t (g/kw-hr)	0.16	IS:11255(P-I)	≤0.2
2.	SO ₂ (g/kw-hr)	0.05	IS:11255(P-II)	-
3.	NO _x (g/kw-hr)	0.09	IS:11255(P-VII)	≤4.0
4.	CO ₂ (g/kw-hr)	0.14	IS : 13270	≤3.5


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 Quality Manager:

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Sample Identification No.	:	S21032302
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	15.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	D.G.Set- 500 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Dam Site near Crusher Plant
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to DG set
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Dia of the Stack	:	160cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	188°C
Ambient Temperature (°C)	:	4°C
Stack Velocity (m/sec.)	:	11.20
Quantity of Emission (Nm ³ /hrs.)	:	850.34

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM, (g/kw-hr)	0.17	IS:11255(P-I)	≤0.3
2.	SO ₂ , (g/kw-hr)	0.05	IS:11255(P-II)	-
3.	NO _x , (g/kw-hr)	0.08	IS:11255(P-VII)	≤4.7
4.	CO, (g/kw-hr)	0.14	IS : 13270	≤3.5


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 Notes:




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Sample Identification No.	: S21032303
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 15.03.2021
Date of Receipt	: 23.03.2021
Sample Description	: D.G. Set-320 KVA
Sample Condition	: Ok
Start Date of Analysis	: 23.03.2021
End Date of Analysis	: 30.03.2021
Date of Reporting	: 31.03.2021
Sampling Location	: ADIT- I
Sample Collected By	: Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	: Stack
Stack Identification/Stack Details	: Stack attached to DG Set
Normal Operating Schedule	: 1 Hr
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 140 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 hr.
Stack Temperature (°C)	: 186°C
Ambient Temperature (°C)	: 2°C
Stack Velocity (m/sec.)	: 11.66
Quantity of Emission (Nm ³ /hrs.)	: 667.19

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM, (g/kw-hr)	0.16	IS:11255(P-I)	≤0.2
2.	SO ₂ , (g/kw-hr)	0.05	IS:11255(P-II)	-
3.	NO _x , (g/kw-hr)	0.09	IS:11255(P-VII)	≤4.0
4.	CO, (g/kw-hr)	0.16	IS : 13270	≤3.5


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TC-6440


Sample Identification No.	:	S21032304
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	17.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	D.G. Set-320 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Site Office
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to DG Set
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Dia of the Stack	:	140 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	172°C
Ambient Temperature (°C)	:	6°C
Stack Velocity (m/sec.)	:	9.53
Quantity of Emission (Nm ³ /hrs.)	:	573.86

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM _t (g/kw-hr)	0.13	IS:11255(P-I)	≤0.2
2.	SO ₂ (g/kw-hr)	0.04	IS:11255(P-II)	-
3.	NO _x (g/kw-hr)	0.09	IS:11255(P-VII)	≤4.0
4.	CO (g/kw-hr)	0.13	IS : 13270	≤3.5




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Sample Identification No.	:	S21032305
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	17.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	D.G.Stack 40 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Site Office
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Dia of the Stack	:	40 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	116°C
Ambient Temperature (°C)	:	6°C
Stack Velocity (m/sec.)	:	9.18
Quantity of Emission (Nm ³ /hrs.)	:	51.62

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM, (g/kw-hr)	0.09	IS:11255(P-I)	≤0.3
2.	SO ₂ , (g/kw-hr)	0.02	IS:11255(P-II)	-
3.	NO _x , (g/kw-hr)	0.05	IS:11255(P-VII)	≤4.7
4.	CO, (g/kw-hr)	0.08	IS : 13270	≤3.5




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Sample Identification No.	:	S21032306
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	17.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	D.G.Stack 125 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Site Office near Cement Store
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Dia of the Stack	:	80 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	134°C
Ambient Temperature (°C)	:	6°C
Stack Velocity (m/sec.)	:	10.32
Quantity of Emission (Nm ³ /hrs.)	:	221.69

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM, (g/kw-hr)	0.12	IS:11255(P-I)	≤0.2
2.	SO ₂ , (g/kw-hr)	0.05	IS:11255(P-II)	-
3.	NO _x , (g/kw-hr)	0.09	IS:11255(P-VII)	≤4.0
4.	CO, (g/kw-hr)	0.13	IS : 13270	≤3.5




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 Notes:




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Sample Identification No.	:	S21032307
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	17.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	D.G.Stack 125 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Near Power House
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Dia of the Stack	:	80 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	132°C
Ambient Temperature (°C)	:	5°C
Stack Velocity (m/sec.)	:	9.50
Quantity of Emission (Nm ³ /hrs.)	:	205.15

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM, (g/kw-hr)	0.10	IS:11255(P-I)	≤0.3
2.	SO ₂ , (g/kw-hr)	0.04	IS:11255(P-II)	-
3.	NO _x , (g/kw-hr)	0.08	IS:11255(P-VII)	≤4.7
4.	CO, (g/kw-hr)	0.12	IS : 13270	≤3.5




Manoranjan
 Analyzed by:
 Notes:




Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W21032301
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Upstream Near Lamber Village
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	pH	-	7.43	6.5-8.5	IS : 3025(P-11)
2.	Odour	-	<5	----	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	----	IS : 3025(P-4)
4.	Temperature	°C	12	----	IS : 3025(P-19)
5.	Turbidity	NTU	2.2	----	IS : 3025(P-10)
6.	Taste	-	Agreeable	----	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	438	----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	284	----	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	88	----	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	126	----	IS : 3025(P-21)
11.	Calcium as CaCO ₃	mg/l	114	----	IS : 3025(P-40)
12.	Magnesium as CaCO ₃	mg/l	24	----	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	----	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	18	----	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	8.8	----	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	42	----	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND [#]	----	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND [#]	----	IS : 3025(P-60)
19.	Total Ammonia as N	mg/l	ND [#]	----	IS : 3025(P-34)
20.	Anionic Detergents as MBAS	mg/l	ND [#]	----	Annexure K of IS:13428
21.	Iron as Fe	mg/l	0.013	----	IS : 3025(P-2)
22.	Phenolic Compound	mg/l	ND [#]	----	IS : 3025(P-43)
23.	Copper as Cu	mg/l	<0.005	----	IS : 3025(P-2)
24.	Aluminium as Al	mg/l	0.018	----	IS : 3025(P-2)
25.	Boron as B	mg/l	<0.02	----	IS : 3025(P-2)
26.	Barium as Ba	mg/l	0.013	----	IS : 3025(P-2)
27.	Zinc as Zn	mg/l	0.007	----	IS : 3025(P-2)

28.	Cadmium as Cd	mg/l	0.003	----	IS : 3025(P-2)
29.	Total Arsenic as As	mg/l	<0.005	----	IS : 3025(P-2)
30.	Lead as Pb	mg/l	0.006	----	IS : 3025(P-2)
31.	Nickel as Ni	mg/l	<0.004	----	IS : 3025(P-2)
32.	Total Chromium as Cr	mg/l	0.008	----	IS : 3025(P-2)
33.	Dissolved Oxygen	mg/l	6.1	≥4mg/l	IS: 3025 (Part-38)
34.	BOD	mg/l	3	----	IS: 3025 (Part-44)
35.	COD	mg/l	12	----	IS: 3025 (Part-58)
36.*	Total Coliform	MPN/100ml	912	----	IS : 1622-1981
37.*	Faecal Coliform	MPN/100ml	467	----	IS : 1622-1981

#ND- Not Detected

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Mahesh
Mahesh Kumar
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification No.	:	W21032302
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Sample Collected By	:	Downstream near Stone Crusher
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Test Method
1.	pH	-	7.13	6.5-8.5	IS : 3025(P-11)
2.	Odour	-	<5	----	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	----	IS : 3025(P-4)
4.	Temperature	°C	10	----	IS : 3025(P-19)
5.	Turbidity	NTU	2.1	----	IS : 3025(P-10)
6.	Taste	-	Agreeable	----	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	392	----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	254	----	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	76	----	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	136	----	IS : 3025(P-21)
11.	Calcium as CaCO ₃	mg/l	110	----	IS : 3025(P-40)
12.	Magnesium as CaCO ₃	mg/l	22	----	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	----	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	38	----	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	7.8	----	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	46	----	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND [#]	----	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND [#]	----	IS : 3025(P-60)
19.	Total Ammonia as N	mg/l	ND [#]	----	IS : 3025(P-34)
20.	Anionic Detergents as MBAS	mg/l	ND [#]	----	Annexure K of IS:13428
21.	Iron as Fe	mg/l	0.001	----	IS : 3025(P-2)
22.	Phenolic Compound	mg/l	ND [#]	----	IS : 3025(P-43)
23.	Copper as Cu	mg/l	<0.005	----	IS : 3025(P-2)
24.	Aluminium as Al	mg/l	0.008	----	IS : 3025(P-2)
25.	Boron as B	mg/l	<0.02	----	IS : 3025(P-2)
26.	Barrium as Ba	mg/l	0.052	----	IS : 3025(P-2)
27.	Zinc as Zn	mg/l	0.004	----	IS : 3025(P-9)

Test Report No.: W210323C -02.

28.	Cadmium as Cd	mg/l	0.003	----	IS : 3025(P-2)
29.	Total Arsenic as As	mg/l	<0.005	----	IS : 3025(P-2)
30.	Lead as Pb	mg/l	0.006	----	IS : 3025(P-2)
31.	Nickel as Ni	mg/l	<0.004	----	IS : 3025(P-2)
32.	Total Chromium as Cr	mg/l	0.001	----	IS : 3025(P-2)
33.	Dissolved Oxygen	mg/l	5.9	≥4mg/l	IS: 3025 (Part-38)
34.	BOD	mg/l	4	----	IS: 3025 (Part-44)
35.	COD	mg/l	14	----	IS: 3025 (Part-58)
36.*	Total Coliform	MPN/100ml	1184	----	IS : 1622-1981
37.*	Faecal Coliform	MPN/100ml	664	----	IS : 1622-1981

#ND- Not Detected

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	


Mahesh Kumar
Analyzed by:






Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W21032303
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Upstream Project Site Near Store Bridge
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	pH	-	7.39	6.5-8.5	IS : 3025(P-11)
2.	Odour	-	<5	----	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	----	IS : 3025(P-4)
4.	Temperature	°C	11	----	IS : 3025(P-19)
5.	Turbidity	NTU	2.6	----	IS : 3025(P-10)
6.	Taste	-	Agreeable	----	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	368	----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	238	----	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	68	----	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	122	----	IS : 3025(P-21)
11.	Calcium as CaCO ₃	mg/l	96	----	IS : 3025(P-40)
12.	Magnesium as CaCO ₃	mg/l	18	----	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	----	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	32	----	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	7.6	----	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	48	----	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND [#]	----	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND [#]	----	IS : 3025(P-60)
19.	Total Ammonia as N	mg/l	ND [#]	----	IS : 3025(P-34)
20.	Anionic Detergents as MBAS	mg/l	ND [#]	----	Annexure K of IS:13428
21.	Iron as Fe	mg/l	0.030	----	IS : 3025(P-2)
22.	Phenolic Compound	mg/l	ND [#]	----	IS : 3025(P-2)
23.	Copper as Cu	mg/l	<0.005	----	IS : 3025(P-2)
24.	Aluminium as Al	mg/l	0.011	----	IS : 3025(P-2)
25.	Boron as B	mg/l	<0.02	----	IS : 3025(P-2)
26.	Barium as Ba	mg/l	0.043	----	IS : 3025(P-2)
27.	Zinc as Zn	mg/l	0.004	----	IS : 3025(P-2)

28.	Cadmium as Cd	mg/l	0.003	----	IS : 3025(P-41)
29.	Total Arsenic as As	mg/l	<0.005	----	IS : 3025(P-37)
30.	Lead as Pb	mg/l	0.010	----	IS : 3025(P-47)
31.	Nickel as Ni	mg/l	<0.004	----	IS : 3025(P-54)
32.	Total Chromium as Cr	mg/l	0.003	----	IS : 3025(P-52)
33.	Dissolved Oxygen	mg/l	6.2	≥4mg/l	IS: 3025 (Part-38)
34.	BOD	mg/l	5	----	IS: 3025 (Part-44)
35.	COD	mg/l	20	----	IS: 3025 (Part-58)
36.*	Total Coliform	MPN/100ml	1154	----	IS : 1622-1981
37.*	Faecal Coliform	MPN/100ml	594	----	IS : 1622-1981

#ND- Not Detected

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Mahesh
Mahesh Kumar
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

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 Ph.0120-4215000, 4215805, Fax, 0120-4215809, email: manteclab@gmail.com



TC-6440

Sample Identification No.	:	W21032304
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	Down Stream Project Site Near TRC
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	pH	-	7.59	6.5-8.5	IS : 3025(P-11)
2.	Odour	-	<5	----	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	----	IS : 3025(P-4)
4.	Temperature	°C	9	----	IS : 3025(P-19)
5.	Turbidity	NTU	2.5	----	IS : 3025(P-10)
6.	Taste	-	Agreeable	----	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	254	----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	164	----	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	42	----	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	88	----	IS : 3025(P-21)
11.	Calcium as Ca	mg/l	54	----	IS : 3025(P-40)
12.	Magnesium as Mg	mg/l	28	----	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	----	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	26	----	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	8.2	----	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	44	----	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND [#]	----	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND [#]	----	IS : 3025(P-60)
19.	Total Ammonia as N	mg/l	ND [#]	----	IS : 3025(P-34)
20.	Anionic Detergents as MBAS	mg/l	ND [#]	----	Annexure K of IS:13428
21.	Iron as Fe	mg/l	0.032	----	IS : 3025(P-2)
22.	Phenolic Compound	mg/l	ND [#]	----	IS : 3025(P-2)
23.	Copper as Cu	mg/l	<0.005	----	IS : 3025(P-2)
24.	Aluminium as Al	mg/l	0.018	----	IS : 3025(P-2)
25.	Boron as B	mg/l	<0.02	----	IS : 3025(P-2)
26.	Barrium as Ba	mg/l	0.042	----	IS : 3025(P-2)
27.	Zinc as Zn	mg/l	0.009	----	IS : 3025(P-2)

28.	Cadmium as Cd	mg/l	0.003	----	IS : 3025(P-2)
29.	Total Arsenic as As	mg/l	<0.005	----	IS : 3025(P-2)
30.	Lead as Pb	mg/l	0.011	----	IS : 3025(P-2)
31.	Nickel as Ni	mg/l	<0.004	----	IS : 3025(P-2)
32.	Total Chromium as Cr	mg/l	0.001	----	IS : 3025(P-2)
33.	Dissolved Oxygen	mg/l	5.8	≥4mg/l	IS: 3025 (Part-38)
34.	BOD	mg/l	4	----	IS: 3025 (Part-44)
35.	COD	mg/l	18	----	IS: 3025 (Part-58)
36.*	Total Coliform	MPN/100ml	865	----	IS : 1622-1981
37.*	Faecal Coliform	MPN/100ml	386	----	IS : 1622-1981

#ND- Not Detected

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Mahesh
Mahesh Kumar
 Analyzed by:





Mallick
Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W21032305
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	R.O. Inlet Water near Power House
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.23	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Odour	-	<5	5	15	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	Agreeable	Agreeable	IS : 3025(P-4)
4.	Temperature	°C	10	-----	-----	IS : 3025(P-19)
5.	Turbidity	NTU	1.7	1	5	IS : 3025(P-10)
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	348	-----	-----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	226	500	2000	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	82	200	600	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	114	200	600	IS : 3025(P-21)
11.	Calcium as Ca	mg/l	27.2	75	200	IS : 3025(P-40)
12.	Magnesium as Mg	mg/l	11.1	30	100	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	20	250	1000	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	4.2	45	No Relaxation	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	38	200	400	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS : 3025(P-60)
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS : 3025(P-26)
20.	Ammonia as TKN	mg/l	ND#	0.5	No Relaxation	IS : 3025(P-34)
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428
22.	Iron as Fe	mg/l	0.473	0.3	No Relaxation	IS : 3025(P-2)
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS : 3025(P-2)
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS : 3025(P-2)
25.	Aluminium as Al	mg/l	0.011	0.03	0.2	IS : 3025(P-2)
26.	Barium as Ba	mg/l	0.038	0.7	No Relaxation	IS : 3025(P-2)

27.	Boron as B	mg/l	<0.10	0.5	1.0	IS : 3025(P-2)
28.	Zinc as Zn	mg/l	0.149	5	15	IS : 3025(P-2)
29.	Mercury as Hg	mg/l	<0.0004	0.001	No Relaxation	IS : 3025(P-2)
30.	Cadmium as Cd	mg/l	0.003	0.003	No Relaxation	IS : 3025(P-2)
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS : 3025(P-2)
32.	Lead as Pb	mg/l	0.011	0.01	No Relaxation	IS : 3025(P-2)
33.	Nickel as Ni	mg/l	0.001	0.02	No Relaxation	IS : 3025(P-2)
34.	Total Chromium as Cr	mg/l	0.001	0.05	No Relaxation	IS : 3025(P-2)
35.*	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS : 1622-1981
36.*	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS : 1622-1981

#ND- Not Detected

Mahesh
Mahesh Kumar
 Analyzed by:





Mallick
Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification No.	:	W21032306
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	R.O. Outlet Water near Power House
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.41	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Odour	-	<5	5	15	IS : 3025(P-5)
3.	Colour	Hazen Units	Agreeable	Agreeable	Agreeable	IS : 3025(P-4)
4.	Temperature	°C	11	-----	-----	IS : 3025(P-19)
5.	Turbidity	NTU	1.76	1	5	IS : 3025(P-10)
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
7.	Conductivity	µmhos/cm	192	-----	-----	IS : 3025(P-14)
8.	Total Dissolved Solids	mg/l	122	500	2000	IS : 3025(P-16)
9.	Alkalinity as CaCO ₃	mg/l	18	200	600	IS : 3025(P-23)
10.	Total Hardness as CaCO ₃	mg/l	52	200	600	IS : 3025(P-21)
11.	Calcium as Ca	mg/l	12.8	75	200	IS : 3025(P-40)
12.	Magnesium as Mg	mg/l	4.6	30	100	IS : 3025(P-46)
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS : 3025(P-59)
14.	Chloride as Cl	mg/l	10	250	1000	IS : 3025(P-32)
15.	Nitrate as NO ₃	mg/l	5.2	45	No Relaxation	IS : 3025(P-34)
16.*	Sulphate as SO ₄	mg/l	32	200	400	IS : 3025(P-24)
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS : 3025(P-29)
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS : 3025(P-60)
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS : 3025(P-26)
20.	Ammonia as TKN	mg/l	ND#	0.5	No Relaxation	IS : 3025(P-34)
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428
22.	Iron as Fe	mg/l	0.078	0.3	No Relaxation	IS : 3025(P-2)
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS : 3025(P-2)
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS : 3025(P-2)
25.	Aluminium as Al	mg/l	0.014	0.03	0.2	IS : 3025(P-2)
26.	Barium as Ba	mg/l	0.032	0.7	No Relaxation	IS : 3025(P-2)

27.	Boron as B	mg/l	<0.10	0.5	1.0	IS : 3025(P-2)
28.	Copper as Cu	mg/l	<0.02	0.05	1.5	IS : 3025(P-2)
29.	Zinc as Zn	mg/l	0.029	5	15	IS : 3025(P-2)
30.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	IS : 3025(P-2)
31.	Cadmium as Cd	mg/l	0.003	0.003	No Relaxation	IS : 3025(P-2)
32.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS : 3025(P-2)
33.	Lead as Pb	mg/l	0.008	0.01	No Relaxation	IS : 3025(P-2)
34.	Nickel as Ni	mg/l	0.001	0.02	No Relaxation	IS : 3025(P-2)
35.	Total Chromium as Cr	mg/l	0.001	0.05	No Relaxation	IS : 3025(P-2)
36.*	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS : 1622-1981
37.*	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS : 1622-1981

#ND- Not Detected

Mahesh
Mahesh Kumar
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification No.	:	W21032307
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	STP Un-treated Power House
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Test Method
1.	pH	-	6.84	5.5-9.0	IS : 3025(P-11)
2.	Total Suspended Solids	-	292	100	IS : 3025(P-17)
3.	BOD	-	308	30	IS : 3025(P-44)
4*	Faecal Coliform	MPN/100ml	17874.0	----	IS : 1622-1981

Mahesh
Mahesh Kumar
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W21032308
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	STP treated Power House
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Test Method
1.	pH	-	7.12	5.5-9.0	IS : 3025(P-11)
2.	Total Suspended Solids	-	88	100	IS : 3025(P-17)
3.	BOD	-	26	30	IS : 3025(P-44)
4*	Faecal Coliform	MPN/100ml	1182.0	----	IS : 1622-1981

Mahesh
Mahesh Kumar
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W21032309
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	STP Un-treated Dam Site
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Test Method
1.	pH	-	6.87	5.5-9.0	IS : 3025(P-11)
2.	Total Suspended Solids	-	192	100	IS : 3025(P-17)
3.	BOD	-	294	30	IS : 3025(P-44)
4*	Faecal Coliform	MPN/100ml	16211.0	----	IS : 1622-1981

Mahesh
Mahesh Kumar
 Analyzed by:





Gaja Nand Mallick
Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W21032310
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	20.03.2021
Date of Receipt	:	23.03.2021
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.03.2021
End Date of Analysis	:	30.03.2021
Date of Reporting	:	31.03.2021
Sampling Location	:	STP treated Dam Site
Sample Collected By	:	Mr. Rahul Singh & Mr. Sayeed Ahmad
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Test Method
1.	pH	-	7.22	5.5-9.0	IS : 3025(P-11)
2.	Total Suspended Solids	-	74	100	IS : 3025(P-17)
3.	BOD	-	28	30	IS : 3025(P-44)
4*	Faecal Coliform	MPN/100ml	1187.0	----	IS : 1622-1981

Mahesh
Mahesh Kumar
 Analyzed by:





Mallik
Gaja Nand Mallick
 Quality Manager:

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		TC-6440

Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	14.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-I
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	40.10	58.70	52.17	Industrial Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440



Location	ADIT-I			
Date	Day/ Hours	Lmin	Leq	Lmax
14.03.2021	06:00AM-07:00AM	54.60	55.28	56.70
	07:00AM-08:00AM	54.50	56.12	57.80
	08:00AM-09:00AM	54.30	54.90	55.70
	09:00AM-10:00AM	54.20	54.43	54.80
	10:00AM-11:00AM	54.20	55.05	58.40
	11:00AM-12:00PM	54.20	55.15	57.40
	12:00PM-01:00PM	54.10	55.99	58.70
	01:00PM-02:00PM	54.20	55.03	56.40
	02:00PM-03:00PM	54.10	55.30	58.40
	03:00PM-04:00PM	54.20	55.97	58.50
	04:00PM-05:00PM	53.60	55.49	58.40
	05:00PM-06:00PM	54.20	55.06	57.60
	06:00PM-07:00PM	54.10	55.19	58.30
	07:00PM-08:00PM	51.70	54.63	56.80
	08:00PM-09:00PM	53.80	55.11	56.20
	09:00PM-10:00PM	52.40	55.05	56.80
	10:00PM-11:00PM	44.20	48.94	49.90
	11:00PM-12:00AM	49.00	49.40	49.70
	12:00AM-01:00AM	43.00	43.75	45.10
	01:00AM-02:00AM	45.10	45.48	45.90
02:00AM-03:00AM	40.90	43.88	45.50	
03:00AM-04:00AM	40.10	42.86	46.10	
04:00AM-05:00AM	43.00	45.41	47.80	
05:00AM-06:00AM	44.90	48.66	49.60	
	Average	40.10	52.17	58.70



Robert Singh

MONITORED BY:

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

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	14.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Dam Site
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	40.40	59.30	52.03	Industrial Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440

Location	Dam Site			
Date	Day/ Hours	Lmin	Leq	Lmax
14.03.2021	06:00AM-07:00AM	52.50	54.84	55.30
	07:00AM-08:00AM	53.60	55.42	56.90
	08:00AM-09:00AM	54.30	54.90	55.70
	09:00AM-10:00AM	53.60	54.32	54.70
	10:00AM-11:00AM	53.80	54.65	56.40
	11:00AM-12:00PM	54.20	54.87	56.20
	12:00PM-01:00PM	53.80	56.16	58.70
	01:00PM-02:00PM	54.20	55.19	57.40
	02:00PM-03:00PM	53.80	54.77	56.40
	03:00PM-04:00PM	53.20	55.57	58.50
	04:00PM-05:00PM	53.80	55.50	58.40
	05:00PM-06:00PM	54.20	55.12	57.60
	06:00PM-07:00PM	53.80	55.07	58.30
	07:00PM-08:00PM	52.60	54.82	57.60
	08:00PM-09:00PM	53.60	55.20	56.20
	09:00PM-10:00PM	54.20	56.66	59.30
	10:00PM-11:00PM	45.60	48.61	49.60
	11:00PM-12:00AM	48.20	49.26	49.60
	12:00AM-01:00AM	43.00	43.75	45.10
	01:00AM-02:00AM	45.10	45.48	45.90
02:00AM-03:00AM	41.20	43.80	45.20	
03:00AM-04:00AM	40.40	42.76	45.20	
04:00AM-05:00AM	42.80	44.96	46.30	
05:00AM-06:00AM	44.90	47.08	48.30	
	Average	40.40	52.03	59.30



Rahul Singh
MONITORED BY:

End of Report

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	15.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Moorang Village
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	41.60	59.90	52.44	Residential Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440



Location	Moorang Village			
Date	Day/ Hours	Lmin	Leq	Lmax
15.03.2021	06:00AM-07:00AM	53.20	55.97	59.30
	07:00AM-08:00AM	53.20	56.88	59.90
	08:00AM-09:00AM	53.20	56.60	59.60
	09:00AM-10:00AM	52.30	55.78	58.58
	10:00AM-11:00AM	52.30	55.14	58.80
	11:00AM-12:00PM	52.40	57.28	58.80
	12:00PM-01:00PM	52.40	56.93	58.80
	01:00PM-02:00PM	52.30	54.50	58.80
	02:00PM-03:00PM	52.30	57.36	58.30
	03:00PM-04:00PM	52.40	55.37	58.60
	04:00PM-05:00PM	52.40	57.62	58.80
	05:00PM-06:00PM	53.40	57.73	58.90
	06:00PM-07:00PM	52.30	57.47	58.80
	07:00PM-08:00PM	52.70	57.05	58.60
	08:00PM-09:00PM	52.30	55.15	58.30
	09:00PM-10:00PM	52.60	56.04	58.60
	10:00PM-11:00PM	43.10	44.04	46.30
	11:00PM-12:00AM	43.20	46.18	50.30
	12:00AM-01:00AM	43.10	46.02	50.22
	01:00AM-02:00AM	43.10	43.80	45.50
02:00AM-03:00AM	43.00	43.44	44.00	
03:00AM-04:00AM	43.00	43.58	44.60	
04:00AM-05:00AM	43.10	43.92	46.60	
05:00AM-06:00AM	41.60	44.69	46.31	
	Average	41.60	52.44	59.90



Robert Singh

MONITORED BY:

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

	<p align="center">MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} (Recognized by MoEF&CC-Govt. of India) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax, 0120-4215809, email: mantecclub@gmail.com</p>	 TC-6440
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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	16.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Check Post
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	39.70	60.20	53.83	Residential Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440

Location	Check Post			
Date	Day/ Hours	Lmin	Leq	Lmax
16.03.2021	06:00AM-07:00AM	53.20	55.78	59.30
	07:00AM-08:00AM	53.20	56.94	60.20
	08:00AM-09:00AM	53.20	56.60	59.60
	09:00AM-10:00AM	52.30	55.78	58.58
	10:00AM-11:00AM	52.30	55.14	58.80
	11:00AM-12:00PM	52.40	57.28	58.80
	12:00PM-01:00PM	52.40	56.93	58.80
	01:00PM-02:00PM	52.30	54.50	58.80
	02:00PM-03:00PM	52.30	57.36	58.30
	03:00PM-04:00PM	52.40	55.37	58.60
	04:00PM-05:00PM	52.40	57.62	58.80
	05:00PM-06:00PM	53.40	57.73	58.90
	06:00PM-07:00PM	52.30	57.47	58.80
	07:00PM-08:00PM	52.70	57.05	58.60
	08:00PM-09:00PM	52.30	55.15	58.30
	09:00PM-10:00PM	52.60	56.04	58.60
	10:00PM-11:00PM	39.70	48.02	56.20
	11:00PM-12:00AM	39.70	48.46	56.30
	12:00AM-01:00AM	39.90	50.18	56.70
	01:00AM-02:00AM	39.70	43.71	48.60
02:00AM-03:00AM	39.70	53.47	56.90	
03:00AM-04:00AM	39.70	48.53	56.20	
04:00AM-05:00AM	39.70	47.04	56.10	
05:00AM-06:00AM	39.70	49.68	56.30	
	Average	39.70	53.83	60.20



Rahul Singh
MONITORED BY:

****End of Report****

	<p style="text-align: center;">MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} (Recognized by MoEF&CC-Govt. of India) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax, 0120-4215809, email: manteclab@gmail.com</p>	 <p style="text-align: center;">TC-6440</p>
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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	16.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Site Office
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	36.20	56.90	48.29	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	As Per CPCB Guidelines	
		Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440

Location	Site Office			
Date	Day/ Hours	Lmin	Leq	Lmax
16.03.2021	06:00AM-07:00AM	44.20	45.58	46.80
	07:00AM-08:00AM	44.20	47.48	51.50
	08:00AM-09:00AM	46.30	51.52	54.50
	09:00AM-10:00AM	46.60	49.78	51.40
	10:00AM-11:00AM	47.20	49.88	51.90
	11:00AM-12:00PM	52.30	54.35	56.30
	12:00PM-01:00PM	53.10	54.93	56.60
	01:00PM-02:00PM	53.80	55.31	56.80
	02:00PM-03:00PM	54.10	55.42	56.70
	03:00PM-04:00PM	54.80	55.82	56.90
	04:00PM-05:00PM	50.20	52.78	56.40
	05:00PM-06:00PM	50.10	52.73	56.30
	06:00PM-07:00PM	46.60	49.80	52.80
	07:00PM-08:00PM	47.30	50.57	52.70
	08:00PM-09:00PM	46.60	50.68	52.80
	09:00PM-10:00PM	47.90	51.19	52.80
	10:00PM-11:00PM	37.90	42.83	48.60
	11:00PM-12:00AM	38.70	41.19	43.90
	12:00AM-01:00AM	36.50	40.24	43.50
	01:00AM-02:00AM	36.20	42.25	45.30
02:00AM-03:00AM	38.40	40.47	42.50	
03:00AM-04:00AM	40.10	41.99	43.80	
04:00AM-05:00AM	37.10	40.61	43.20	
05:00AM-06:00AM	41.60	41.49	46.31	
	Average	36.20	48.29	56.90



Rahul Singh

MONITORED BY:

End of Report

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		TC-6440

Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	17.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Rispa Village
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	36.50	57.10	47.48	Residential Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440



Location	Rispa Village			
Date	Day/ Hours	Lmin	Leq	Lmax
17.03.2021	06:00AM-07:00AM	42.40	49.93	47.20
	07:00AM-08:00AM	44.50	44.75	48.70
	08:00AM-09:00AM	45.80	47.07	49.80
	09:00AM-10:00AM	47.20	47.90	51.90
	10:00AM-11:00AM	48.60	50.70	52.20
	11:00AM-12:00PM	49.20	51.60	53.90
	12:00PM-01:00PM	50.40	52.56	54.40
	01:00PM-02:00PM	51.90	54.10	56.30
	02:00PM-03:00PM	53.80	55.90	57.10
	03:00PM-04:00PM	52.80	54.39	55.40
	04:00PM-05:00PM	50.90	52.75	54.20
	05:00PM-06:00PM	48.30	51.45	53.60
	06:00PM-07:00PM	47.20	49.68	51.40
	07:00PM-08:00PM	45.60	48.15	50.60
	08:00PM-09:00PM	43.50	46.98	49.60
	09:00PM-10:00PM	42.90	46.20	48.60
	10:00PM-11:00PM	42.10	45.88	49.80
	11:00PM-12:00AM	40.50	42.97	45.90
	12:00AM-01:00AM	39.70	41.31	42.50
	01:00AM-02:00AM	36.50	38.80	40.50
02:00AM-03:00AM	36.70	38.19	39.40	
03:00AM-04:00AM	38.70	40.91	42.80	
04:00AM-05:00AM	40.60	42.73	44.50	
05:00AM-06:00AM	42.80	44.55	46.20	
	Average	36.50	47.48	57.10



Rahul Singh

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****End of Report****

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	18.03.2021
Sample Description	:	Noise Monitoring
Sampling Location	:	Power House
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)			Category of Area
	Lmin	Lmax	Leq	
1.	36.50	57.20	48.22	Industrial Area

Standards of Noise Level

As Per CPCB Guidelines			
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



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TC-6440



Location	Power House			
Date	Day/ Hours	Lmin	Leq	Lmax
18.03.2021	06:00AM-07:00AM	43.80	45.17	46.30
	07:00AM-08:00AM	44.00	46.05	48.60
	08:00AM-09:00AM	46.30	51.46	54.50
	09:00AM-10:00AM	46.60	49.78	51.40
	10:00AM-11:00AM	47.20	49.88	51.90
	11:00AM-12:00PM	53.10	54.85	57.20
	12:00PM-01:00PM	53.60	54.90	56.30
	01:00PM-02:00PM	54.10	54.99	55.90
	02:00PM-03:00PM	54.10	55.42	56.70
	03:00PM-04:00PM	54.80	55.82	56.90
	04:00PM-05:00PM	50.20	52.78	56.40
	05:00PM-06:00PM	50.10	52.73	56.30
	06:00PM-07:00PM	46.60	49.80	52.80
	07:00PM-08:00PM	47.30	50.57	52.70
	08:00PM-09:00PM	46.60	50.68	52.80
	09:00PM-10:00PM	47.90	51.19	52.80
	10:00PM-11:00PM	37.90	42.83	48.60
	11:00PM-12:00AM	38.70	41.19	43.90
	12:00AM-01:00AM	36.50	40.24	43.50
	01:00AM-02:00AM	36.80	42.42	45.30
02:00AM-03:00AM	38.40	40.47	42.50	
03:00AM-04:00AM	40.10	41.99	43.80	
04:00AM-05:00AM	37.10	40.61	43.20	
05:00AM-06:00AM	39.50	41.49	43.80	
	Average	36.50	48.22	57.20



Rahul Singh

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

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	15.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	500 KVA
Sampling Location	:	Dam Site
Monitored by	:	Mr. Sayeed Ahmad



Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L_{eq}	CPCB Guidelines & Indian Standard:9989	87.17	64.65	24.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	66.20	45.60	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.50	70.50	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00




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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	15.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	500 KVA
Sampling Location	:	Dam Site near Crusher Plant
Monitored by	:	Mr. Sayeed Ahmad



Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L_{eq}	CPCB Guidelines & Indian Standard:9989	91.94	66.08	23.70
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	75.10	48.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	97.30	73.60	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00




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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	15.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	320 KVA
Sampling Location	:	ADIT - I
Monitored by	:	Mr. Sayeed Ahmad

Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L _{eq}	CPCB Guidelines & Indian Standard:9989	91.11	66.20	22.90
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	60.20	47.50	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	98.40	73.50	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00




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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	17.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	320 KVA
Sampling Location	:	Site Office
Monitored by	:	Mr. Sayeed Ahmad

Monitoring Report



S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L _{eq}	CPCB Guidelines & Indian Standard:9989	89.69	66.08	23.90
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	68.50	42.80	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	97.40	73.50	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00



Sayeed

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	17.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	40 KVA
Sampling Location	:	Site Office
Monitored by	:	Mr. Sayeed Ahmad



Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L _{eq}	CPCB Guidelines & Indian Standard:9989	87.20	63.55	23.30
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	66.20	45.60	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	93.50	70.20	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00




 MONITORED BY:

****End of Report****

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	17.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Site Office near Cement Store
Monitored by	:	Mr. Mahesh Kumar



Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L _{eq}	CPCB Guidelines & Indian Standard:9989	91.79	65.34	23.60
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	71.40	48.60	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	94.80	71.20	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00



Signature

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Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	17.03.2021
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Near Power House
Monitored by	:	Mr. Mahesh Kumar

Monitoring Report

S. No.	Parameters	Protocol	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	L _{eq}	CPCB Guidelines & Indian Standard:9989	92.22	66.59	22.80
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	72.20	47.10	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	97.80	75.00	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00



Jayesh
MONITORED BY:

****End of Report****



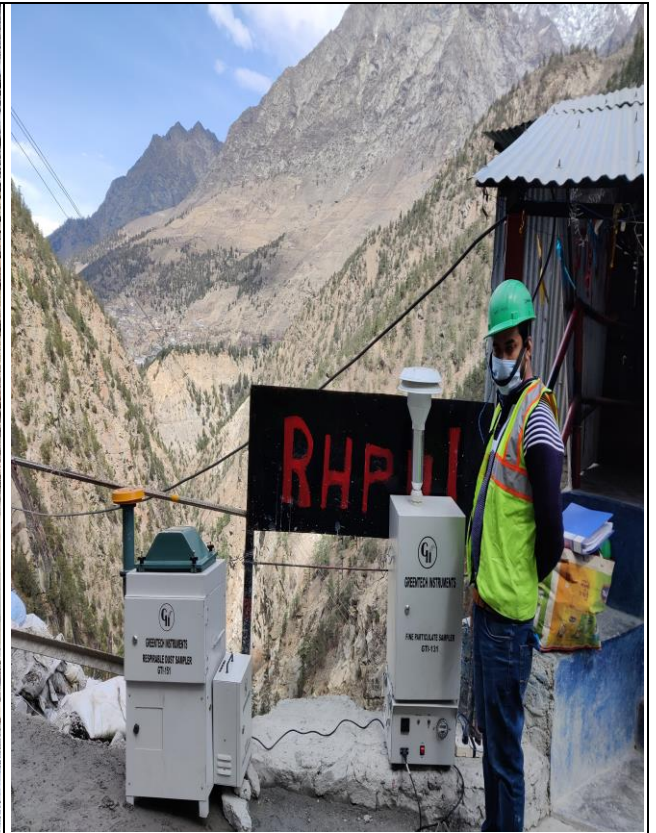
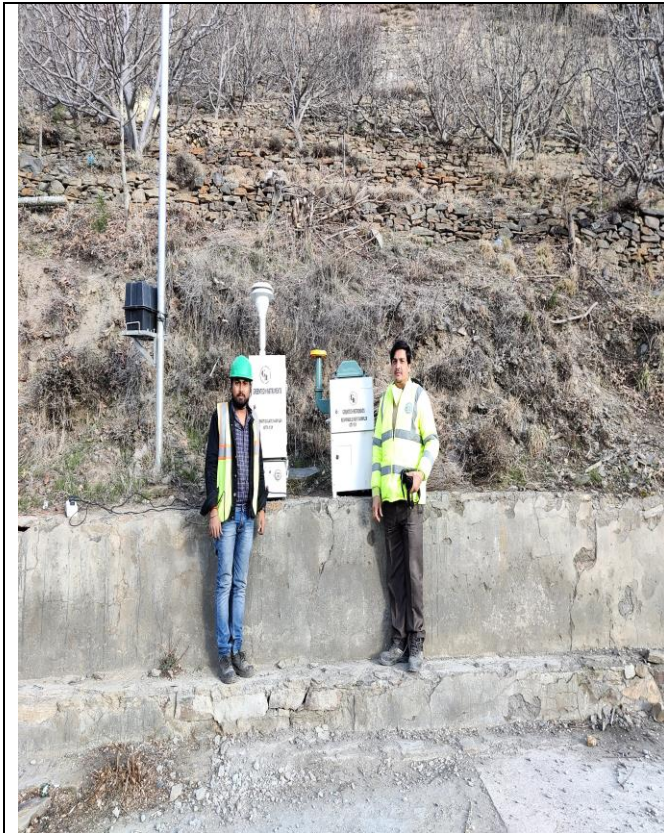
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D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, email: manteclab@gmail.com

Traffic Survey

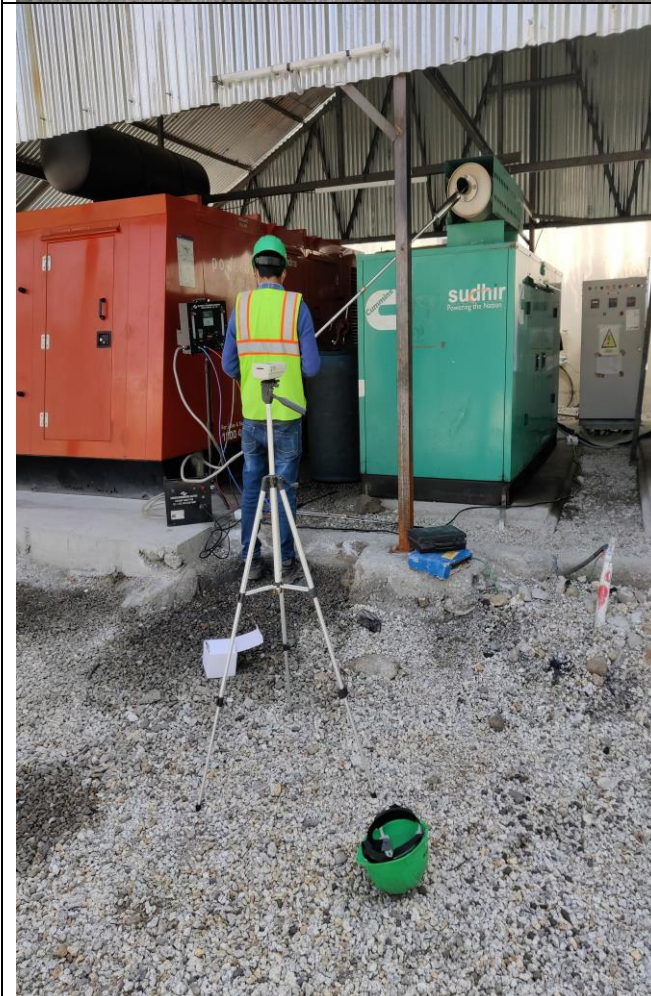
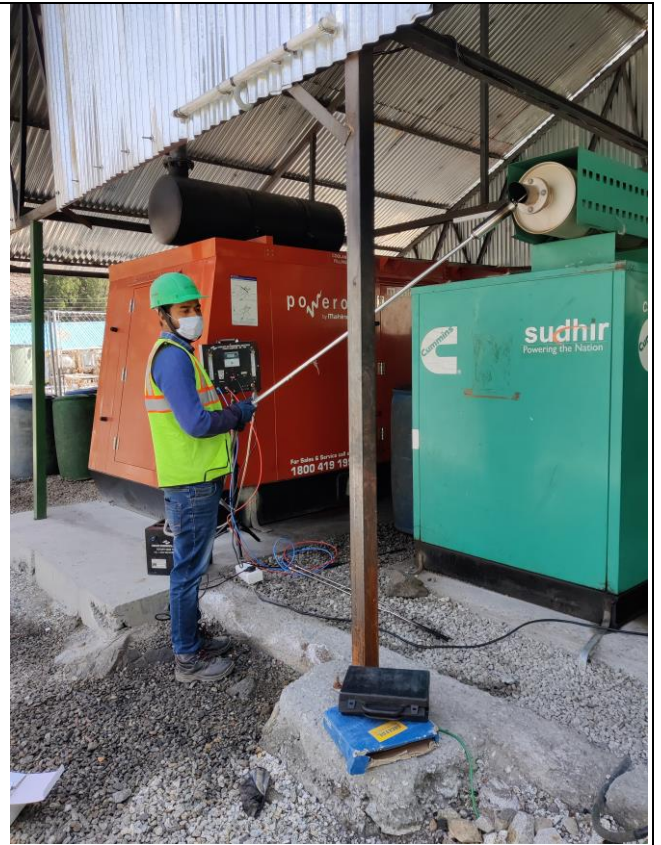
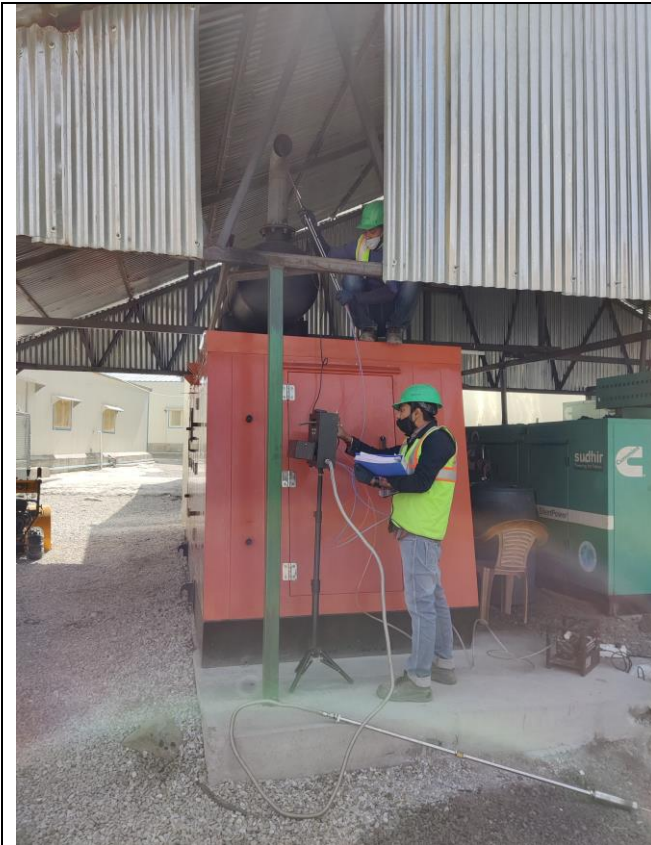
Location	Check Post, Village - Ruwang, Distt.- Kinnaur, Himachal Pradesh				
Dates	18.03.2021 to 19.03.2021				
Types of Vehicles					
Time (Hrs)	Project LCV	Other LCV	Other Trucks/Bus	Project Trucks	2-Wheelers
06:00-07:00	00	00	00	00	00
07:00-08:00	00	00	00	00	00
08:00-09:00	00	00	00	00	00
09:00-10:00	02	01	00	01	00
10:00-11:00	00	00	00	00	00
11:00-12:00	01	00	00	00	00
12:00-13:00	00	00	00	00	00
13:00-14:00	02	01	00	01	00
14:00-15:00	01	01	00	00	00
15:00-16:00	00	00	00	00	00
16:00-17:00	01	02	00	01	00
17:00-18:00	02	01	00	00	00
18:00-19:00	01	00	00	00	00
19:00-20:00	00	01	00	01	00
20:00-21:00	00	00	00	00	00
21:00-22:00	00	00	00	00	00
22:00-23:00	00	00	00	00	00
23:00-24:00	00	00	00	00	00
24:00-01:00	00	00	00	00	00
01:00-02:00	00	00	00	00	00
02:00-03:00	00	00	00	00	00
03:00-04:00	00	00	00	00	00
04:00-05:00	00	00	00	00	00
05:00-06:00	00	00	00	00	00
Total	10	07	00	04	00



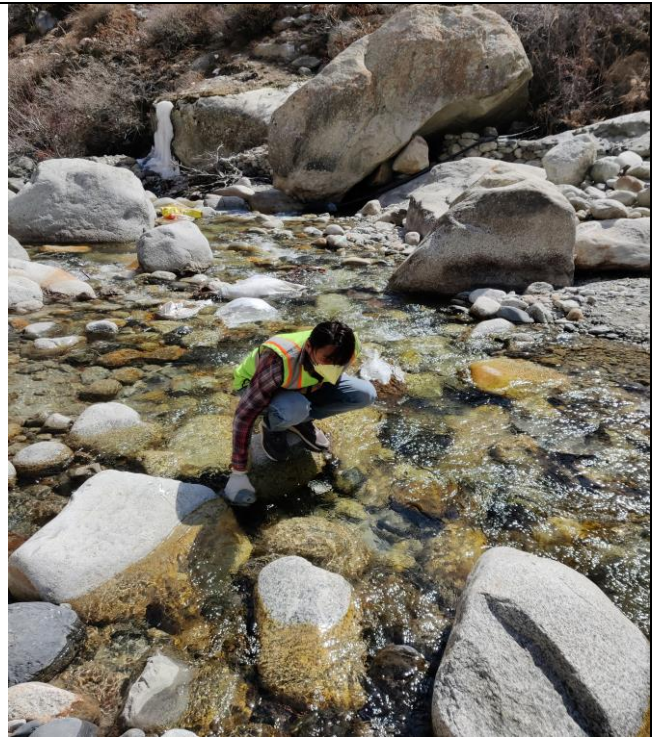
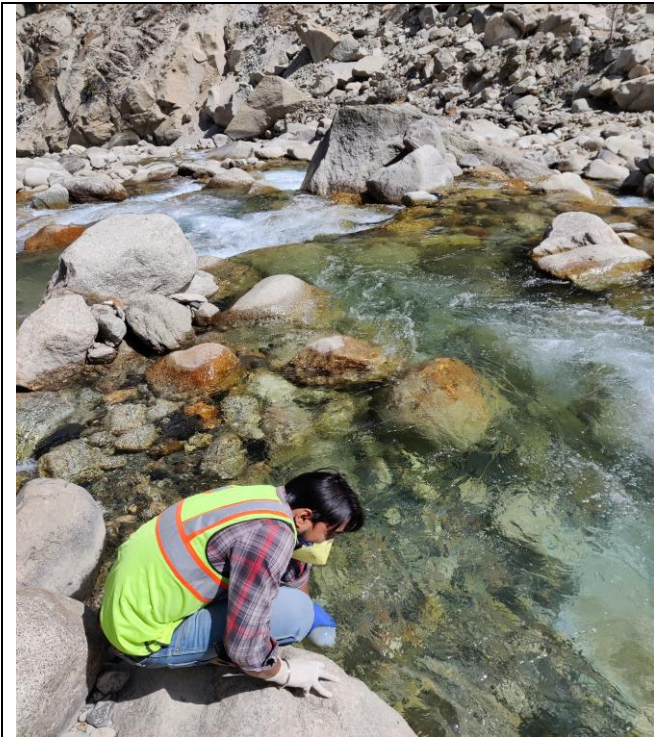
Environmental Monitoring Photographs of TPGPL Project,
Kinnaur, H.P.



Monitoring of Ambient Air & Ambient Noise



Monitoring of Source Emission & Source Noise



Sampling of Water & Waste Water