

ENVIRONMENTAL MONITORING REPORT

FOR

TIDONG POWER GENERATION PVT LTD



M/TPGPL./2023/01

May, 2023



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI/NABET Accredited EIA Consultant at S.No.167 as per List of Accredited consultant

Organizations/ Rev.25 /Sept 05, 2022 and MoEF&CC approved Laboratory

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SUMMARY OF REPORT

AMBIENT AIR QUALITY

To assess the Ambient Air Quality status in the study area surrounding of Tidong HEP seven monitoring locations were selected on the basis of topographical and meteorological situation. The details of monitoring locations and parameters carried out and testing protocols are as follows:

AMBIENT AIR QUALITY STATUS

Pollutants like PM₁₀, PM_{2.5}, SO₂, NO₂ & CO were collected and analyzed.

Ambient Air Quality - Methodology

Locations	Parameters	Unit of Measurements	CPCB Prescribed Limits	Protocol
1 Power House	SO ₂ NO ₂ PM ₁₀ PM _{2.5} CO	µg/ m ³ µg/ m ³ µg/m ³ µg/ m ³ mg/m ³	80 (24 Hours) 80 (24 Hours) 100 (24 Hours) 60 (24 Hours) 2 (08 Hours)	IS 5182(Part-2):2017 IS 5182(Part-6):2017 IS 5182(Part-23):2017 IS 5182(Part-24):2019 IS 5182(Part-10):2019 NDIR spectroscopy
2 Near Site Office				
3 Near Store Room				
4 ADIT-I				
5 Dam Site				
6 ADIT-II				
7 Rispa Village				

Conclusion

PM₁₀ (Particulate Matter)

During the monitoring period, it has been observed that the average values of PM₁₀ for all the monitoring stations ranging from 40 µg/m³ to 58 µg/m³. The lowest value was observed as 40µg/m³ at ADIT-I and the highest value was observed as 58 µg/m³ at Rispa Village. The values of all locations are well within the CPCB prescribed limits for PM₁₀ i.e., 100 µg/m³.

PM_{2.5} (Fine Particulate Matter)

During the monitoring period, it has been observed that the average values of PM_{2.5} for all the monitoring stations ranging from 24 µg/m³ to 34 µg/m³. The lowest value was observed as 24 µg/m³ at ADIT-I and the highest value was observed as 34 µg/m³ at Rispa Village. The values of all locations are well within the CPCB prescribed limits for PM_{2.5} i.e., 60 µg/m³.

Sulphur Dioxide

During the monitoring period, it has been observed that the average values of SO₂ for all the monitoring stations ranging from 04 µg/m³ to 12 µg/m³. The lowest value was observed as 04 µg/m³ at ADIT-I and the highest value was observed as 14 µg/m³ at Rispa Village. The values of all locations are well within the CPCB prescribed limits for SO₂ i.e., 80 µg/m³.

Nitrogen Dioxide

During the monitoring period, it has been observed that the average values of NO₂ for all the monitoring stations ranging from 18 µg/m³ to 36 µg/m³. The lowest value was observed as 18µg/m³ at ADIT-I and the highest value was observed as 36 µg/m³ at Rispa Village. The values of all locations are well within the CPCB prescribed limits for NO₂ i.e., 80 µg/m³.

Carbon Monoxide

During the monitoring period, it has been observed that the average values of CO for all the monitoring stations ranging from 0.34 mg/m³ to 0.64 mg/m³. The lowest value was observed as 0.40 mg/m³ at ADIT-I and the highest value was observed as 0.64 mg/m³ at Rispa Village. The values of all locations are well within the CPCB prescribed limits for CO i.e., 2.0 mg/m³.

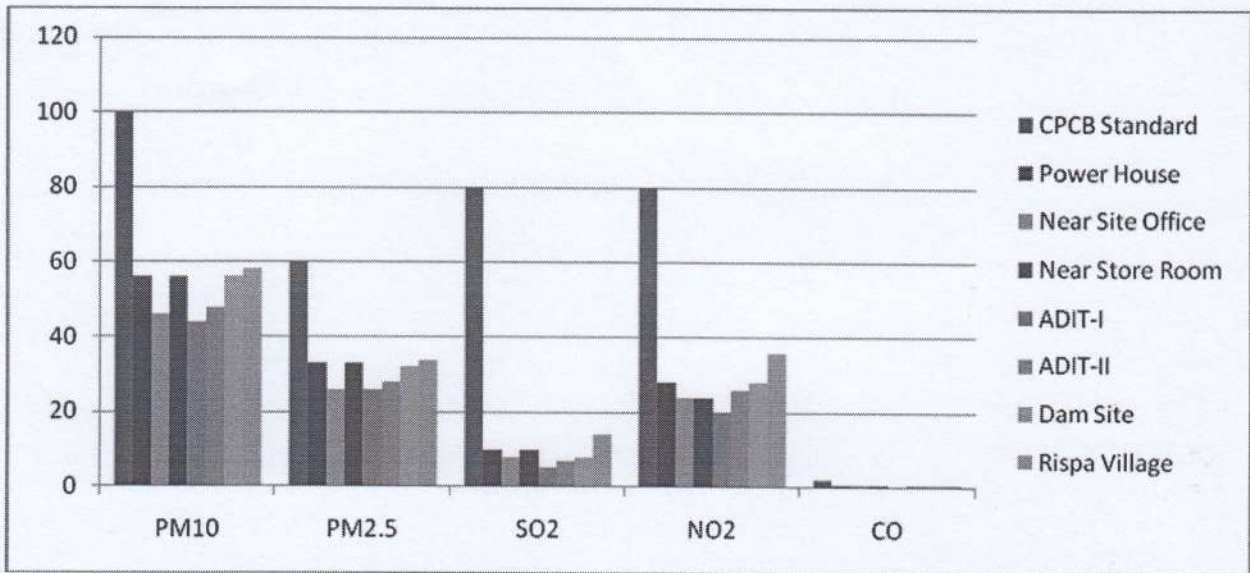


Fig. :- AAQ of Concentration Graph

WATER QUALITY

To assess the Water Quality Status in the vicinity of Tidong HEP 10 sampling locations were selected. The Physico-Chemical parameters are analyzed and compared with IS: 10500 for suitability of the drinking purpose are as follows:

Sl. No.	Parameters	Units	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	6.5-8.5	No Relaxation	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	5	15	IS 3025(Part-4) : 2021
4.	Temperature	°C	-----	-----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	1	5	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	Agreeable	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	-----	-----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	500	2000	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	200	600	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	75	200	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	30	100	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	0.1	0.3	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	250	1000	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	45	No Relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	200	400	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	0.05	No Relaxation	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	<1.0	1.5	IS 3025(Part-60) : 2019
19.	Free Residual Chlorine	mg/l	0.2	1	IS 3025(Part-26) : 2021
20.	Ammonia as N	mg/l	0.5	No Relaxation	IS 3025(Part-34) : 2019
21.	Anionic Detergents as MBAS	mg/l	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.3	No Relaxation	IS 3025(Part-2) : 2019
23.	Phenolic Compound	mg/l	0.001	0.002	IS 3025(Part-43) : 2019
24.	Copper as Cu	mg/l	0.05	1.5	IS 3025(Part-2) : 2019
25.	Aluminium as Al	mg/l	0.03	0.2	IS 3025(Part-2) : 2019

26.	Barium as Ba	mg/l	0.7	No Relaxation	IS 3025(Part-2) : 2019
27.	Boron as B	mg/l	0.5	1.0	IS 3025(Part-2) : 2019
28.	Zinc as Zn	mg/l	5	15	IS 3025(Part-2) : 2019
29.	Mercury as Hg	mg/l	0.001	No Relaxation	IS 3025(Part-48) : 2019
30.	Cadmium as Cd	mg/l	0.003	No Relaxation	IS 3025(Part-2) : 2019
31.	Total Arsenic as As	mg/l	0.01	0.05	IS 3025(Part-2) : 2019
32.	Lead as Pb	mg/l	0.01	No Relaxation	IS 3025(Part-2) : 2019
33.	Nickel as Ni	mg/l	0.02	No Relaxation	IS 3025(Part-2) : 2019
34.	Total Chromium as Cr	mg/l	0.05	No Relaxation	IS 3025(Part-2) : 2019
35.	Total Coliform	MPN/100ml	Absent	Absent	IS : 1622 : 1981
36.	Faecal Coliform	MPN/100ml	Absent	Absent	IS : 1622 : 1981

Conclusion

The Water & Waste Water samples taken from ground water source for drinking purpose were analyzed and observed, is well within the limit and it confirms the requirement of IS : 10500.

Surface water collected from Tidong River meets the CPCB Water Quality Criteria and best designated use. Waste Water analysis results for all Locations shows that waste water is as per CPCB discharge limit.



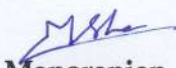
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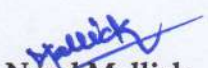
Sample Identification	:	A23050801
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	01.05.2023, 09:55 AM
End Date & Time of Sampling	:	02.05.2023, 09:55 AM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Power House
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	06	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.48	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
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TC-6440

Sample Identification	:	A23050802
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	02.05.2023, 11:05 AM
End Date & Time of Sampling	:	03.05.2023, 11:05 AM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Power House
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	33	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.58	02	IS 5182(Part-10):2019 NDIR spectroscopy

Manoranjan
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 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A23050803
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	01.05.2023, 01:00 PM
Start Date & Time of Sampling	:	02.05.2023, 01:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Near Site Office
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	46	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	26	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.52	02	IS 5182(Part-10):2019 NDIR spectroscopy


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 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A23050804
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	02.05.2023, 01:05 AM
End Date & Time of Sampling	:	03.05.2023, 01:05AM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Near Site Office
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	24	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.52	02	IS 5182(Part-10):2019 NDIR spectroscopy

MSA
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 Analyzed by:



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 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A23050805
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	01.05.2023, 04:00 PM
Start Date & Time of Sampling	:	02.05.2023, 04:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Near Store Room
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.64	02	IS 5182(Part-10):2019 NDIR spectroscopy

M. S. H.
 Manoranjan
 Analyzed by:



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 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A23050806
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	02.05.2023, 04:05 PM
End Date & Time of Sampling	:	03.05.2023, 04:05 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Near Store Room
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	33	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.64	02	IS 5182(Part-10):2019 NDIR spectroscopy


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 Analyzed by:




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 Quality Manager:

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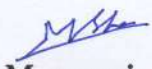
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Sample Identification	:	A23050807
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	03.05.2023, 12:00 PM
End Date & Time of Sampling	:	04.05.2023, 12:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	ADIT-I
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	24	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	04	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.42	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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****End of Report****

Test Report No.: A230508C -08.



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TC-6440

Sample Identification	:	A23050808
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	04.05.2023, 12:05 PM
Start Date & Time of Sampling	:	05.05.2023, 12:05 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	ADIT-I
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	26	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	05	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.38	02	IS 5182(Part-10):2019 NDIR spectroscopy


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Analyzed by:




Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: A230508C -09.



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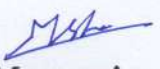


TC-6440

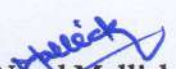
Sample Identification	:	A23050809
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	03.05.2023, 12:00 PM
End Date & Time of Sampling	:	04.05.2023, 12:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	ADIT-II
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	25	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.50	02	IS 5182(Part-10):2019 NDIR spectroscopy


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Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Test Report No.: A230508C -10.



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TC-6440

Sample Identification	:	A23050810
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	04.05.2023, 12:05 PM
Start Date & Time of Sampling	:	05.05.2023, 12:05 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	ADIT-II
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	48	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	07	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.56	02	IS 5182(Part-10):2019 NDIR spectroscopy


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Gaja Nand Mallick
 Quality Manager:

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Test Report No.: A230508C -11.



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TC-6440

Sample Identification	:	A23050811
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	03.05.2023, 12:00 PM
End Date & Time of Sampling	:	04.05.2023, 12:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Dam Site
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.58	02	IS 5182(Part-10):2019 NDIR spectroscopy


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Quality Manager:

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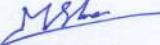
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Sample Identification	:	A23050812
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	05.05.2023, 12:05 PM
Start Date & Time of Sampling	:	06.05.2023, 12:05 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Dam Site
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	30	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	07	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.54	02	IS 5182(Part-10):2019 NDIR spectroscopy


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 Quality Manager:

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Sample Identification	:	A23050813
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	04.05.2023, 01:00 PM
End Date & Time of Sampling	:	05.05.2023, 01:00 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Rispa Village
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	58	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	34	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	36	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.64	02	IS 5182(Part-10):2019 NDIR spectroscopy


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TC-6440

Sample Identification	:	A23050814
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	05.05.2023, 01:05 PM
Start Date & Time of Sampling	:	06.05.2023, 01:05 PM
Date of Receipt	:	08.05.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Rispa Village
Sample Submitted by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	30	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	09	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	32	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.52	02	IS 5182(Part-10):2019 NDIR spectroscopy

Msl
 Manoranjan
 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification No.	: S23050801
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 03.05.2023
Date of Receipt	: 08.05.2023
Sample Description	: D.G.Set-40 KVA
Sample Condition	: Ok
Start Date of Analysis	: 08.05.2023
End Date of Analysis	: 13.05.2023
Date of Reporting	: 13.05.2023
Sampling Location	: Near Site Office
Sample Collected By	: Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 128°C
Ambient Temperature (°C)	: 9°C
Stack Velocity (m/sec.)	: 9.51
Quantity of Emission (Nm ³ /hrs.)	: 115.504

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	50	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	24	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	46	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.024	IS 13270 : 2019	≤3.5

Msh
Manoranjan
 Analyzed by:
 Notes:



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 Quality Manager:

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TC-6440


Sample Identification No.	: S23050802
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 03.05.2023
Date of Receipt	: 08.05.2023
Sample Description	: D.G.Set- 250 KVA
Sample Condition	: Ok
Start Date of Analysis	: 08.05.2023
End Date of Analysis	: 13.05.2023
Date of Reporting	: 13.05.2023
Sampling Location	: Near Site Office
Sample Collected By	: Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	: 40cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 136°C
Ambient Temperature (°C)	: 9°C
Stack Velocity (m/sec.)	: 10.71
Quantity of Emission (Nm ³ /hrs.)	: 229.10

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	20	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	42	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.018	IS 13270 : 2019	≤3.5


 Manoranjan
 Analyzed by:
 Notes:




 Gaja Nand Mallick
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TC-6440

Sample Identification No.	:	S23050803
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	03.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	D.G. Set-125 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Near Power House
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	:	60 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 Hr.
Stack Temperature (°C)	:	142°C
Ambient Temperature (°C)	:	9°C
Stack Velocity (m/sec.)	:	10.77
Quantity of Emission (Nm ³ /hrs.)	:	128.24

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	54	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	26	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	44	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.42	IS 13270 : 2019	≤3.5

M.S.L.
Manoranjan
 Analyzed by:
 Notes:



G.N.M.
Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification No.	: S23050804
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 03.05.2023
Date of Receipt	: 08.05.2023
Sample Description	: D.G.Stack 125 KVA
Sample Condition	: Ok
Start Date of Analysis	: 08.05.2023
End Date of Analysis	: 13.05.2023
Date of Reporting	: 13.05.2023
Sampling Location	: Near Cement Store
Sample Collected By	: Md. Danish Alam & Mr. Ankit Kumar Tiwari
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 D.G. Set
Normal Operating Schedule	: 1 Hr.
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 134°C
Ambient Temperature (°C)	: 9°C
Stack Velocity (m/sec.)	: 10.44
Quantity of Emission (Nm ³ /hrs.)	: 126.21

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	45	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.26	IS 13270 : 2019	≤3.5

MSS
Manoranjan
 Analyzed by:
 Notes:



Gaja Nand Mallick
Gaja Nand Mallick
 Quality Manager:

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



TC-6440

Sample Identification No.	:	S23050805
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	05.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	D.G.Stack 320 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	ADIT-II
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	:	140°C
Ambient Temperature (°C)	:	10°C
Stack Velocity (m/sec.)	:	9.32
Quantity of Emission (Nm ³ /hrs.)	:	197.44

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	56	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	44	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.12	IS 13270 : 2019	≤3.5

Mst
 Manoranjan
 Analyzed by:
 Notes:



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TC-6440


Sample Identification No.	: S23050806
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 05.05.2023
Date of Receipt	: 08.05.2023
Sample Description	: D.G.Stack 320 KVA
Sample Condition	: Ok
Start Date of Analysis	: 08.05.2023
End Date of Analysis	: 13.05.2023
Date of Reporting	: 13.05.2023
Sampling Location	: ADIT-I
Sample Collected By	: Md. Danish Alam & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	: 138°C
Ambient Temperature (°C)	: 10°C
Stack Velocity (m/sec.)	: 10.11
Quantity of Emission (Nm ³ /hrs.)	: 215.16

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Test Method	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	40	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.14	IS 13270 : 2019	≤3.5


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 Notes:




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TC-6440

Sample Identification No.	: S23050807
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 05.05.2023
Date of Receipt	: 08.05.2023
Sample Description	: D.G.Stack 500 KVA
Sample Condition	: Ok
Start Date of Analysis	: 08.05.2023
End Date of Analysis	: 13.05.2023
Date of Reporting	: 13.05.2023
Sampling Location	: Dam Site Batching Plant
Sample Collected By	: Md. Danish Alam & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	: 140°C
Ambient Temperature (°C)	: 10°C
Stack Velocity (m/sec.)	: 10.00
Quantity of Emission (Nm ³ /hrs.)	: 211.87

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	52	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	20	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	48	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.42	IS 13270 : 2019	≤3.5

MS
 Manoranjan
 Analyzed by:
 Notes:



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Sample Identification No.	:	W23050801
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	R.O. Water (Inlet) Dam Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	-	7.36	6.5-8.5	No Relaxation	IS 3025 : Part-11 : 2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 : Part-5 : 2018
3.	Colour	Hazen Units	<5	5	15	IS 3025 : Part-4 : 2021
4.	Temperature	°C	12	-----	-----	IS 3025 : Part-19 : 2017
5.	Turbidity	NTU	1.5	1	5	IS 3025 : Part-10 : 2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 : Part-7&8 : 2017
7.	Conductivity	µmhos/cm	299	-----	-----	IS 3025 : Part-14 : 2019
8.	Total Dissolved Solids	mg/l	194	500	2000	IS 3025 : Part-16 : 2017
9.	Alkalinity as CaCO ₃	mg/l	78	200	600	IS 3025 : Part-23 : 2019
10.	Total Hardness as CaCO ₃	mg/l	138	200	600	IS 3025 : Part-21 : 2019
11.	Calcium as Ca	mg/l	44.8	75	200	IS 3025 : Part-40 : 2019
12.	Magnesium as Mg	mg/l	4.86	30	100	IS 3025 : Part-46 : 2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025 : Part-2 : 2019
14.	Chloride as Cl	mg/l	22	250	1000	IS 3025 : Part-32 : 2019
15.	Nitrate as NO ₃	mg/l	9.4	45	No Relaxation	IS 3025 : Part-34 : 2019
16.	Sulphate as SO ₄	mg/l	40	200	400	IS 3025 : Part-24 : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025 : Part-29 : 2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025 : Part-60 : 2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025 : Part-26 : 2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025 : Part-34 : 2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025 : Part-2 : 2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025 : Part-43 : 2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025 : Part-2 : 2019


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25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025 : Part-2 : 2019
26.	Barium as Ba	mg/l	0.042	0.7	No Relaxation	IS 3025 : Part-2 : 2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025 : Part-2 : 2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025 : Part-2 : 2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025 : Part-48 : 2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025 : Part-2 : 2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025 : Part-2 : 2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025 : Part-2 : 2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025 : Part-2 : 2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025 : Part-2 : 2019
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


Ajmal Husain
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W23050802
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Sample Collected By	:	R.O. Water (Outlet) Dam Site
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	-	6.58	6.5-8.5	No Relaxation	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4) : 2021
4.	Temperature	°C	14	-----	-----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	0.8	1	5	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	200	-----	-----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	130	500	2000	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	28	200	600	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	52	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	15.2	75	200	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	3.40	30	100	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	18	250	1000	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	6.2	45	No Relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	28	200	400	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60) : 2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26) : 2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34) : 2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025Part-2) : 2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.044	0.7	No Relaxation	IS 3025(Part-2) : 2019

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2) : 2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48) : 2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2) : 2019
31.	Total Arsenic as As	mg/l	0.004	0.01	0.05	IS 3025(Part-2) : 2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025(Part-2) : 2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025(Part-2) : 2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2) : 2019
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


Ajmal Husain
 Analyzed by:




Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification No.	:	W23050803
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	R.O.Water (Inlet) Project Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	-	7.44	6.5-8.5	No Relaxation	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4) : 2021
4.	Temperature	°C	16	-----	-----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	1.2	1	5	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	339	-----	-----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	220	500	2000	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	72	200	600	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	114	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	37.6	75	200	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	4.86	30	100	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	36	250	1000	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	7.8	45	No Relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	46	200	400	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60) : 2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26) : 2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34) : 2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.14	0.3	No Relaxation	IS 3025Part-2) : 2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.026	0.7	No Relaxation	IS 3025(Part-2) : 2019


Test Report No.: W230508C -03.

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2) : 2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48) : 2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2) : 2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2) : 2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025(Part-2) : 2019
33.	Nickel as Ni	mg/l	0.006	0.02	No Relaxation	IS 3025(Part-2) : 2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2) : 2019
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


Ajmal Husain
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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TC-6440

Sample Identification No.	:	W23050804
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	R.O.Water (Outlet) Project Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	-	7.42	6.5-8.5	No Relaxation	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4) : 2021
4.	Temperature	°C	14	-----	-----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	0.5	1	5	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	214	-----	-----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	139	500	2000	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	50	200	600	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	68	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	19.2	75	200	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	4.86	30	100	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	26	250	1000	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	4.2	45	No Relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	24	200	400	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60) : 2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26) : 2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34) : 2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.018	0.3	No Relaxation	IS 3025(Part-2) : 2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.025	0.7	No Relaxation	IS 3025(Part-2) : 2019

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27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2) : 2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48) : 2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2) : 2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2) : 2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025(Part-2) : 2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025(Part-2) : 2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2) : 2019
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


Ajmal Husain
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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



Sample Identification No.	:	W23050805
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Up Stream Near Dam Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	-	7.64	6.5-8.5	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4) : 2021
4.	Temperature	°C	14	----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	1.6	----	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	417	----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	271	----	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	90	----	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	174	----	IS 3025(Part-21) : 2019
11.	Calcium as as CaCO ₃	mg/l	120	----	IS 3025(Part-40) : 2019
12.	Magnesium as CaCO ₃	mg/l	54	----	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	<0.01	----	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	62	----	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	6.2	----	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	46	----	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60) : 2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34) : 2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428,2018
21.	Iron as Fe	mg/l	<0.02	----	IS 3025(Part-2) : 2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43) : 2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	0.004	----	IS 3025(Part-2) : 2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.034	----	IS 3025(Part-2) : 2019
27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2) : 2019

28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2) : 2019
29.	Total Arsenic as As	mg/l	<0.005	----	IS 3025(Part-2) : 2019
30.	Lead as Pb	mg/l	<0.005	----	IS 3025(Part-2) : 2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2) : 2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2) : 2019
33.	Dissolved Oxygen	mg/l	7.6	≥4mg/l	IS 3025(Part-38) : 2019
34.	BOD	mg/l	5.2	----	IS 3025(Part-44) : 2019
35.	COD	mg/l	44	----	IS 3025(Part-58) : 2017
36.	Total Coliform	MPN/100ml	849	----	IS 1622 : 1981
37.	Faecal Coliform	MPN/100ml	486	----	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	

Ajmal
Ajmal Husain
Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W23050806
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	Down Stream Near Project Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	-	7.46	6.5-8.5	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4) : 2021
4.	Temperature	°C	16	----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	1.4	----	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	301	----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	196	----	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	84	----	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	106	----	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	86	----	IS 3025(Part-40) : 2019
12.	Magnesium as CaCO ₃	mg/l	20	----	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	<0.02	----	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	34	----	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	5.8	----	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	26	----	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60) : 2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34) : 2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428
21.	Iron as Fe	mg/l	0.082	----	IS 3025(Part-2) : 2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43) : 2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	0.12	----	IS 3025(Part-2) : 2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.036	----	IS 3025(Part-2) : 2019

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27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2) : 2019
28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2) : 2019
29.	Total Arsenic as As	mg/l	<0.005	----	IS 3025(Part-2) : 2019
30.	Lead as Pb	mg/l	<0.005	----	IS 3025(Part-2) : 2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2) : 2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2) : 2019
33.	Dissolved Oxygen	mg/l	6.4	≥4mg/l	IS 3025(Part-38) : 2019
34.	BOD	mg/l	7.8	----	IS 3025(Part-44) : 2019
35.	COD	mg/l	64	----	IS 3025(Part-58) : 2017
36.	Total Coliform	MPN/100ml	999	----	IS 1622 : 1981
37.	Faecal Coliform	MPN/100ml	515	----	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	


Ajmal Husain
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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



Sample Identification No.	:	W23050807
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	STP Un-Treated Dam Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.46	----	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	450	----	IS 3025(Part-17):2021
3.	COD	mg/l	756	250	IS 3025(Part-58):2017
4.	BOD	mg/l	454	----	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	270	20	IS 3025(Part-39) : 2021

Ajmal
Ajmal Husain
 Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
 Quality Manager:

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Test Report No.: W230508C -08.



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TC-6440

Sample Identification No.	:	W23050808
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	06.05.2023
Date of Receipt	:	08.05.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	08.05.2023
End Date of Analysis	:	13.05.2023
Date of Reporting	:	13.05.2023
Sampling Location	:	STP Treated Dam Site
Sample Collected By	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.82	5.5-9.0	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	86	100	IS 3025(Part-17):2021
3.	COD	mg/l	120	250	IS 3025(Part-58):2017
4.	BOD	mg/l	66	30	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	162	20	IS 3025(Part-39) : 2021


Ajmal Husain
Analyzed by:




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	:	02.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Power House
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.31	38.78	38.50	58.20	51.75	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

Msh
 Manoranjan
 Analyzed by:




Manick
 Gaja Nand Mallick
 Quality Manager:




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Location	Power House				
	Date	Day/ Hours	Lmin	Leq	Lmax
02.05.2023		06:00AM-07:00AM	53.50	55.53	56.90
		07:00AM-08:00AM	53.80	57.08	58.20
		08:00AM-09:00AM	54.70	55.43	56.20
		09:00AM-10:00AM	53.60	54.49	55.50
		10:00AM-11:00AM	52.20	54.78	57.20
		11:00AM-12:00PM	53.20	55.10	57.80
		12:00PM-01:00PM	52.60	55.37	57.60
		01:00PM-02:00PM	52.90	54.85	57.20
		02:00PM-03:00PM	53.40	54.90	56.60
		03:00PM-04:00PM	54.30	55.90	57.20
		04:00PM-05:00PM	54.20	55.32	57.20
		05:00PM-06:00PM	54.40	55.60	57.90
		06:00PM-07:00PM	53.60	54.59	55.60
		07:00PM-08:00PM	52.80	54.60	56.40
		08:00PM-09:00PM	53.20	55.22	56.60
		09:00PM-10:00PM	52.80	54.45	55.70
		10:00PM-11:00PM	42.60	45.82	48.50
		11:00PM-12:00AM	43.60	45.64	48.20
		12:00AM-01:00AM	42.60	43.80	45.80
		01:00AM-02:00AM	41.60	45.17	45.80
		02:00AM-03:00AM	40.20	43.53	45.20
	03:00AM-04:00AM	38.50	42.40	44.40	
	04:00AM-05:00AM	41.60	44.80	46.30	
	05:00AM-06:00AM	43.20	47.72	49.20	
	Average		38.50	51.75	58.20


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

****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	:	02.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Site Office
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.12	40.10	37.40	56.80	47.81	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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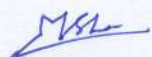
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Location	Near Site Office			
Date	Day/ Hours	Lmin	Leq	Lmax
02.05.2023	06:00AM-07:00AM	43.50	45.27	46.30
	07:00AM-08:00AM	43.80	46.46	51.10
	08:00AM-09:00AM	44.60	49.80	53.80
	09:00AM-10:00AM	45.20	48.57	50.40
	10:00AM-11:00AM	46.80	49.37	51.30
	11:00AM-12:00PM	51.80	53.89	56.10
	12:00PM-01:00PM	52.50	54.52	56.30
	01:00PM-02:00PM	53.20	54.96	56.40
	02:00PM-03:00PM	53.60	55.11	56.40
	03:00PM-04:00PM	54.10	55.55	56.80
	04:00PM-05:00PM	49.70	51.91	54.20
	05:00PM-06:00PM	49.20	51.85	55.20
	06:00PM-07:00PM	45.20	47.72	50.20
	07:00PM-08:00PM	46.80	50.00	52.60
	08:00PM-09:00PM	45.50	50.06	52.60
	09:00PM-10:00PM	46.40	49.87	51.40
	10:00PM-11:00PM	39.50	42.89	47.20
	11:00PM-12:00AM	38.80	41.79	44.30
	12:00AM-01:00AM	37.40	40.22	43.20
	01:00AM-02:00AM	38.20	42.37	44.80
02:00AM-03:00AM	38.40	40.47	42.50	
03:00AM-04:00AM	40.10	41.99	43.80	
04:00AM-05:00AM	37.80	41.34	44.60	
05:00AM-06:00AM	41.60	41.49	46.31	
	Average	37.40	47.81	56.80


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

****End of Report****

Test Report No.: N230508C -03.



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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	:	03.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Store Room
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report


Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	52.00	39.70	39.70	58.80	52.65	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


Manoranjan
Analyzed by:





Gaja Nand Mallick
Quality Manager:

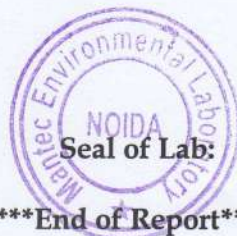


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Location	Near Store Room			
Date	Day/ Hours	Lmin	Leq	Lmax
03.05.2023	06:00AM-07:00AM	52.60	55.17	58.70
	07:00AM-08:00AM	52.80	56.11	58.80
	08:00AM-09:00AM	53.00	54.14	56.10
	09:00AM-10:00AM	51.40	53.74	56.20
	10:00AM-11:00AM	52.30	55.14	58.80
	11:00AM-12:00PM	51.60	56.75	58.70
	12:00PM-01:00PM	51.80	54.28	56.40
	01:00PM-02:00PM	52.10	53.47	56.10
	02:00PM-03:00PM	51.60	54.93	57.60
	03:00PM-04:00PM	52.00	53.26	54.60
	04:00PM-05:00PM	51.60	57.14	58.40
	05:00PM-06:00PM	52.80	54.84	56.50
	06:00PM-07:00PM	51.60	54.30	56.40
	07:00PM-08:00PM	52.20	54.23	56.20
	08:00PM-09:00PM	50.60	53.58	55.40
	09:00PM-10:00PM	51.60	53.44	54.60
	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	52.65	58.80


Manoranjan
Analyzed by:



****End of Report****


Gaja Nand Mallick
Quality Manager:

Test Report No.: N230508C -04.



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TC-6440

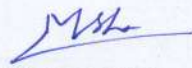
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	04.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-I
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.82	39.20	36.20	57.40	48.25	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


Manoranjan
Analyzed by:





Gaja Nand Mallick
Quality Manager:




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Location	ADIT-I			
Date	Day/ Hours	Lmin	Leq	Lmax
04.05.2023	06:00AM-07:00AM	42.60	44.85	46.30
	07:00AM-08:00AM	44.20	45.82	47.60
	08:00AM-09:00AM	47.10	51.68	55.20
	09:00AM-10:00AM	46.60	49.78	51.40
	10:00AM-11:00AM	47.50	50.08	52.60
	11:00AM-12:00PM	53.40	54.68	55.80
	12:00PM-01:00PM	53.80	55.24	57.20
	01:00PM-02:00PM	54.10	55.37	57.40
	02:00PM-03:00PM	54.10	55.23	56.40
	03:00PM-04:00PM	54.80	55.82	56.90
	04:00PM-05:00PM	50.20	52.78	56.40
	05:00PM-06:00PM	50.90	54.18	56.50
	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	38.60	42.18	46.50
	11:00PM-12:00AM	38.80	41.01	42.50
	12:00AM-01:00AM	36.50	40.24	43.50
	01:00AM-02:00AM	38.50	42.57	45.30
02:00AM-03:00AM	38.40	40.47	42.50	
03:00AM-04:00AM	39.20	41.77	43.50	
04:00AM-05:00AM	36.20	40.54	43.20	
05:00AM-06:00AM	39.50	41.49	43.80	
	Average	36.20	48.25	57.40


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

****End of Report****

Test Report No.: N230508C -05.



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TC-6440

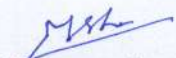
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	27.11.2022
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-II
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

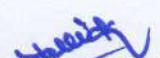
Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.18	38.79	37.30	58.90	49.89	Industrial Area

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


Manoranjan
Analyzed by:





Gaja Nand Mallick
Quality Manager:

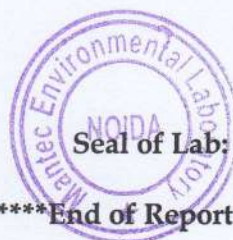


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Location	ADIT-II			
Date	Day/ Hours	Lmin	Leq	Lmax
04.05.2023	06:00AM-07:00AM	47.20	47.90	51.90
	07:00AM-08:00AM	48.60	50.70	52.20
	08:00AM-09:00AM	49.20	51.60	53.90
	09:00AM-10:00AM	50.40	52.56	54.40
	10:00AM-11:00AM	51.90	54.10	56.30
	11:00AM-12:00PM	53.80	56.07	58.20
	12:00PM-01:00PM	52.80	54.39	55.40
	01:00PM-02:00PM	52.40	56.93	58.80
	02:00PM-03:00PM	52.30	54.50	58.80
	03:00PM-04:00PM	52.30	57.36	58.30
	04:00PM-05:00PM	52.40	55.37	58.60
	05:00PM-06:00PM	52.40	57.62	58.80
	06:00PM-07:00PM	53.40	57.73	58.90
	07:00PM-08:00PM	52.30	57.47	58.80
	08:00PM-09:00PM	46.60	50.68	52.80
	09:00PM-10:00PM	43.10	46.31	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	37.30	38.93	40.50
02:00AM-03:00AM	37.50	38.77	40.40	
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	37.30	49.89	58.90


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****End of Report****


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	:	05.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Dam Site
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report


Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leg	
1.	52.40	39.42	36.20	59.60	51.58	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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 Quality Manager:




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Location	Dam Site			
Date	Day/ Hours	Lmin	Leq	Lmax
05.05.2023	06:00AM-07:00AM	53.20	55.78	59.30
	07:00AM-08:00AM	53.20	56.27	58.80
	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	43.87	45.70
	11:00PM-12:00AM	39.70	41.97	45.20
	12:00AM-01:00AM	39.90	42.70	47.00
	01:00AM-02:00AM	38.50	42.57	45.30
02:00AM-03:00AM	38.40	40.47	42.50	
03:00AM-04:00AM	39.20	41.77	43.50	
04:00AM-05:00AM	36.20	40.54	43.20	
05:00AM-06:00AM	39.70	41.89	45.80	
	Average	36.20	51.58	59.60


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

****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	:	05.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Rispa Village
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report


Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.20	41.42	41.20	58.60	51.48	Residential 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


 Manoranjan
 Analyzed by:





 Gaja Nand Mallick
 Quality Manager:




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Location	Rispa Village			
Date	Day/ Hours	Lmin	Leq	Lmax
05.05.2023	06:00AM-07:00AM	53.20	54.93	56.20
	07:00AM-08:00AM	53.20	55.05	56.32
	08:00AM-09:00AM	53.80	54.72	55.30
	09:00AM-10:00AM	53.60	54.45	55.80
	10:00AM-11:00AM	53.20	54.30	54.80
	11:00AM-12:00PM	53.40	54.59	55.40
	12:00PM-01:00PM	53.80	56.10	58.60
	01:00PM-02:00PM	53.40	54.73	56.40
	02:00PM-03:00PM	53.80	55.04	56.80
	03:00PM-04:00PM	53.20	55.25	57.20
	04:00PM-05:00PM	53.50	54.89	56.40
	05:00PM-06:00PM	53.80	54.65	55.40
	06:00PM-07:00PM	53.50	54.41	54.90
	07:00PM-08:00PM	54.10	54.71	56.40
	08:00PM-09:00PM	53.60	55.15	56.00
	09:00PM-10:00PM	53.50	56.03	58.60
	10:00PM-11:00PM	44.20	47.63	49.20
	11:00PM-12:00AM	44.20	46.06	47.60
	12:00AM-01:00AM	42.40	43.46	44.50
	01:00AM-02:00AM	41.40	42.75	43.80
02:00AM-03:00AM	41.20	43.24	44.80	
03:00AM-04:00AM	41.40	43.21	44.60	
04:00AM-05:00AM	41.20	44.15	45.70	
05:00AM-06:00AM	43.60	46.04	47.80	
	Average	41.20	51.48	58.60


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

****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	:	03.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	40 KVA
Sampling Location	:	Near Site Office
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	88.29	63.83	24.10
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	62.30	45.80	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	94.50	70.40	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

M. S. K.
 Manoranjan
 Analyzed by:



G. N. M.
 Gaja Nand Mallick
 Quality Manager:

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	:	03.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	250 KVA
Sampling Location	:	Near Site Office
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	81.02	62.88	23.60
2.	L _{min}	CPCB Guidelines & Indian Standard:9989	67.40	46.50	--
3.	L _{max}	CPCB Guidelines & Indian Standard:9989	91.20	67.60	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

****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	:	03.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Near Power House
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.62	65.63	24.40
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	67.40	44.20	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	95.60	71.20	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

****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	:	03.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Near Cement Store
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	79.09	62.66	23.80
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	65.40	43.60	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	88.60	64.80	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

M.S.
 Manoranjan
 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

****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	:	05.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	320 KVA
Sampling Location	:	ADIT-II
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017


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	87.36	65.42	24.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	68.20	44.80	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	70.20	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00


 Manoranjan
 Analyzed by:



****End of Report****



 Gaja Nand Mallick
 Quality Manager:

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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	:	05.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	320 KVA
Sampling Location	:	ADIT-I
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.39	65.88	23.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	70.50	46.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	71.20	--
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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 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	:	05.05.2023
Date of Reporting	:	13.05.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	500 KVA
Sampling Location	:	Dam Site Batching Plant
Monitored by	:	Md. Danish Alam & Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	91.63	64.39	23.40
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	75.30	48.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	70.80	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00


 Manoranjan
 Analyzed by:



Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

****End of Report****



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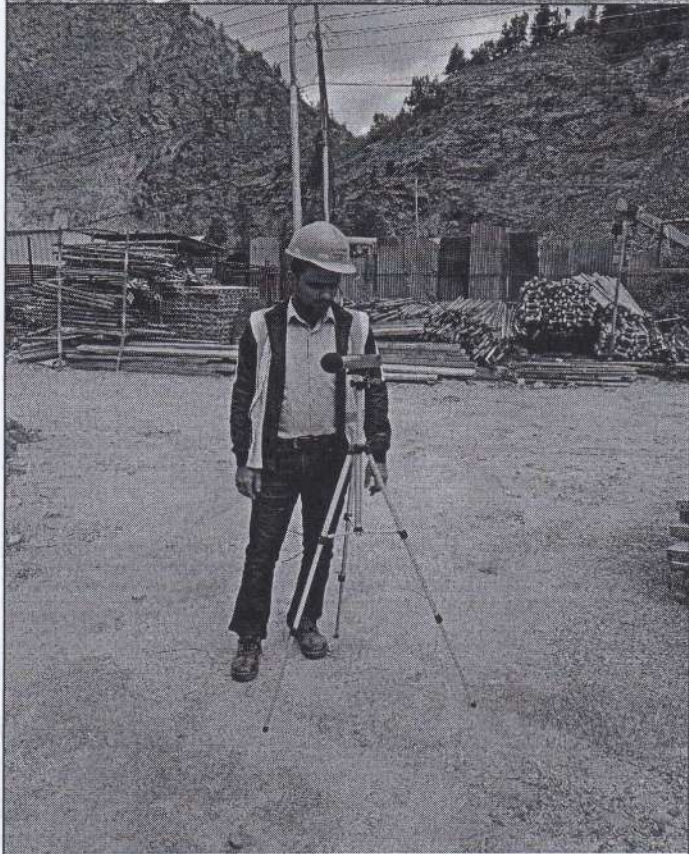
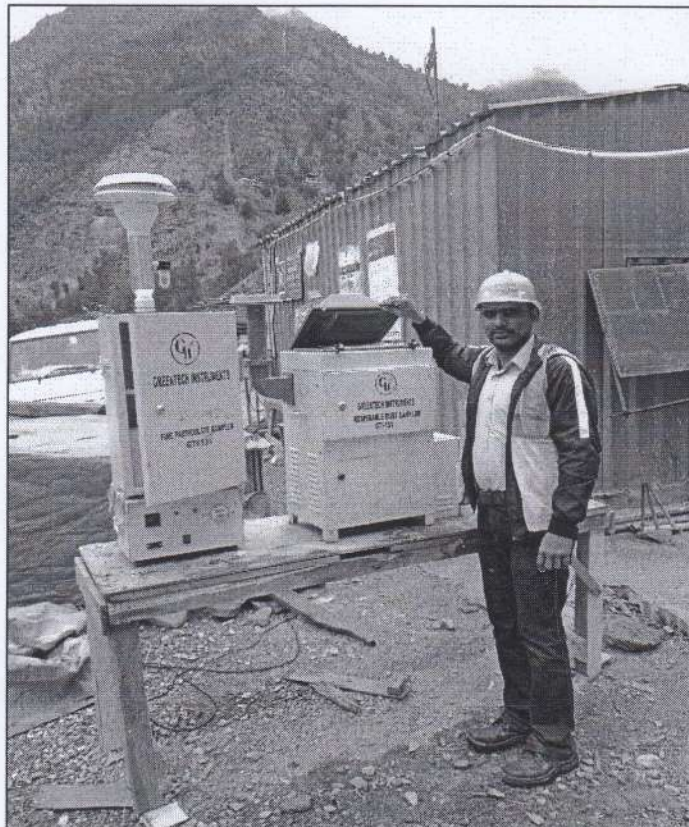
TC-6440

Traffic Survey

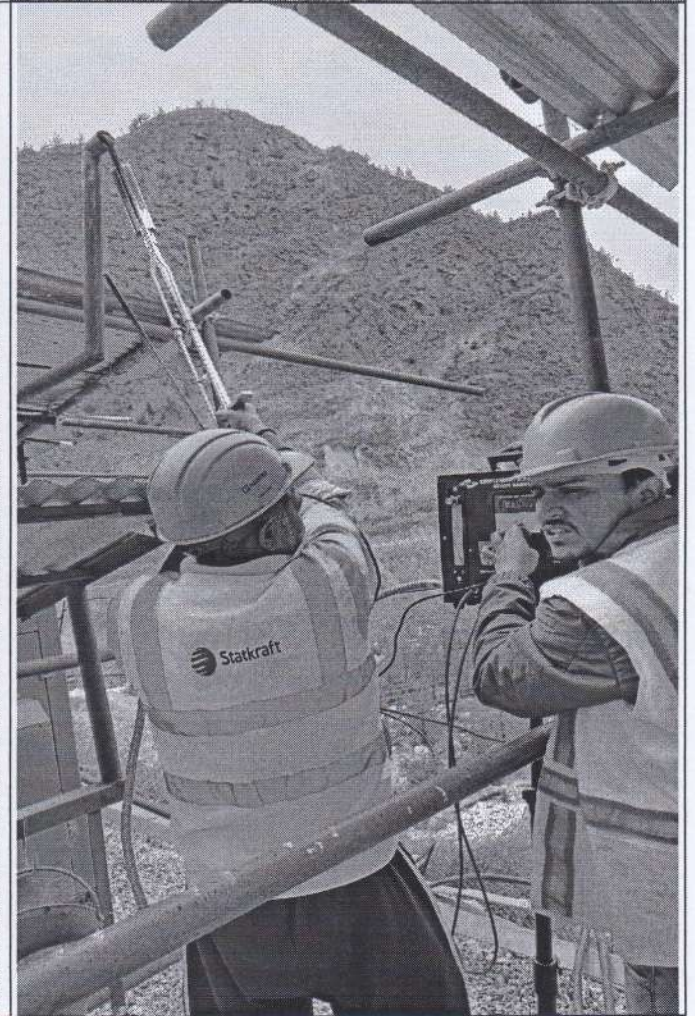
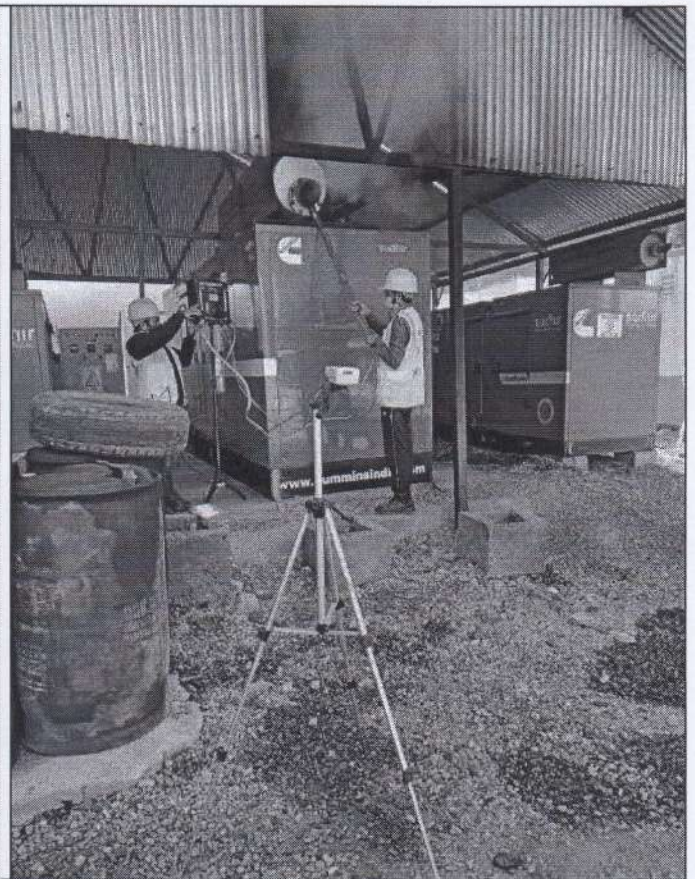
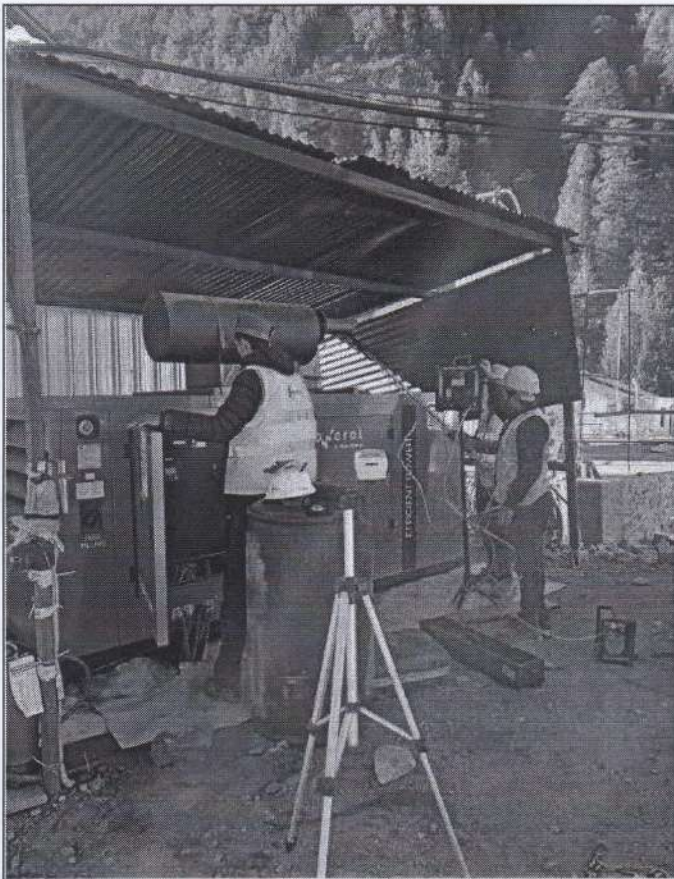
Location	Check Post, Village - Ruwang, Distt.- Kinnaur, Himachal Pradesh				
Date	05.05.2023 to 06.05.2023				
	Type of Vehicles				
Time (Hrs)	Project LCV	Other LCV	Other Trucks/Bus	Project Trucks	2-Wheelers
06:00-07:00	00	00	00	00	00
07:00-08:00	00	00	00	00	00
08:00-09:00	00	00	00	00	01
09:00-10:00	00	01	00	01	00
10:00-11:00	01	00	00	01	00
11:00-12:00	00	02	00	03	00
12:00-13:00	03	00	00	01	00
13:00-14:00	02	02	00	02	00
14:00-15:00	01	02	00	01	00
15:00-16:00	01	01	00	02	01
16:00-17:00	02	01	00	01	00
17:00-18:00	02	01	00	01	00
18:00-19:00	01	01	00	00	00
19:00-20:00	02	02	00	01	00
20:00-21:00	03	00	00	00	00
21:00-22:00	01	00	00	02	00
22:00-23:00	02	01	00	00	00
23:00-24:00	00	00	00	01	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	21	14	00	17	02



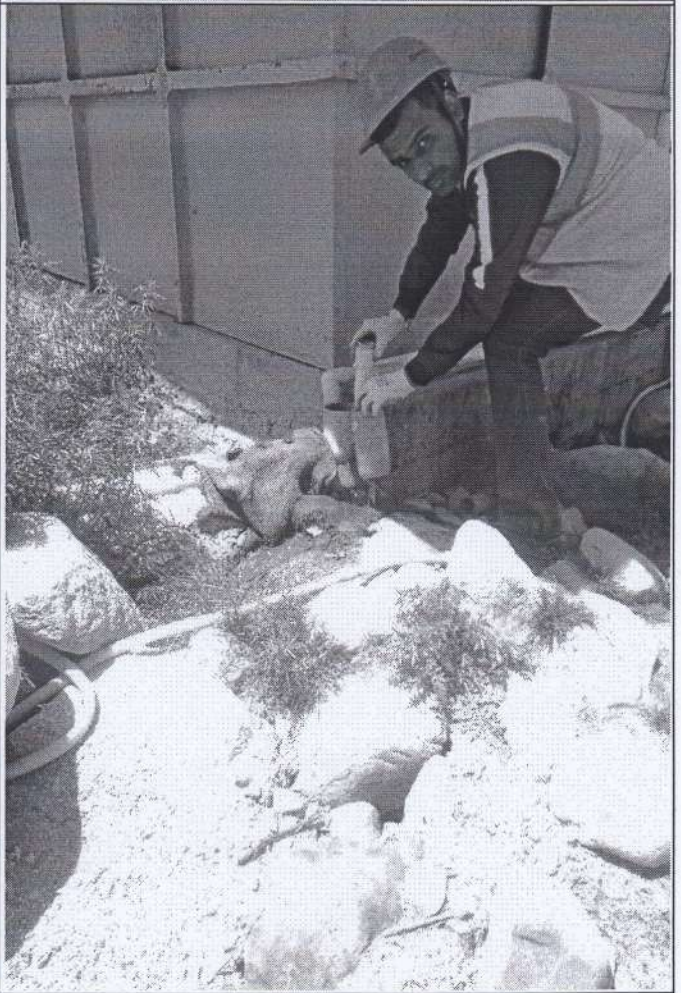
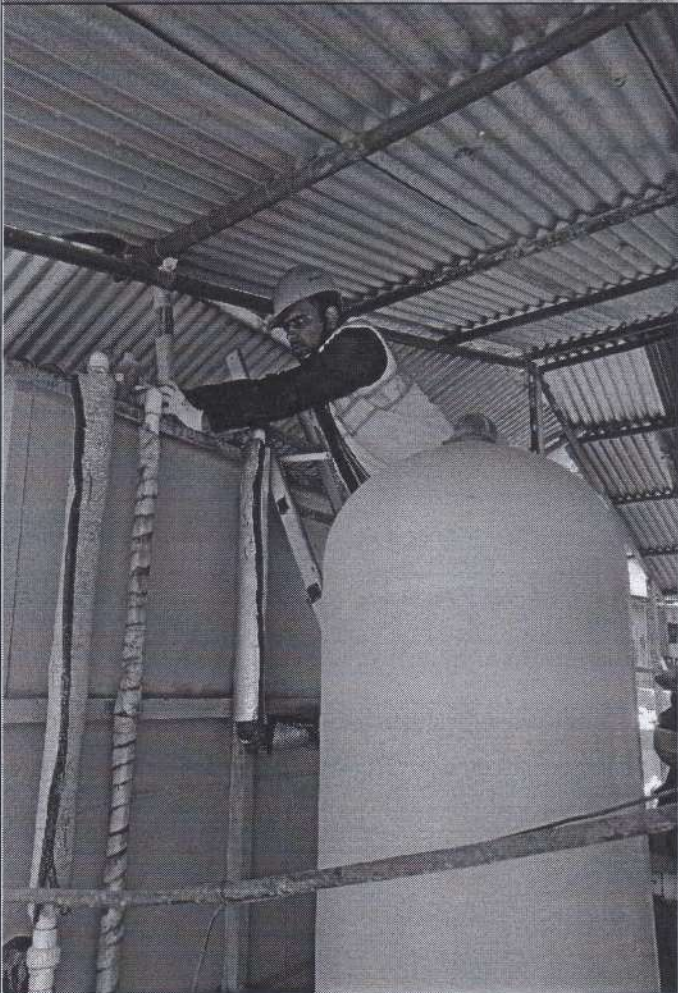
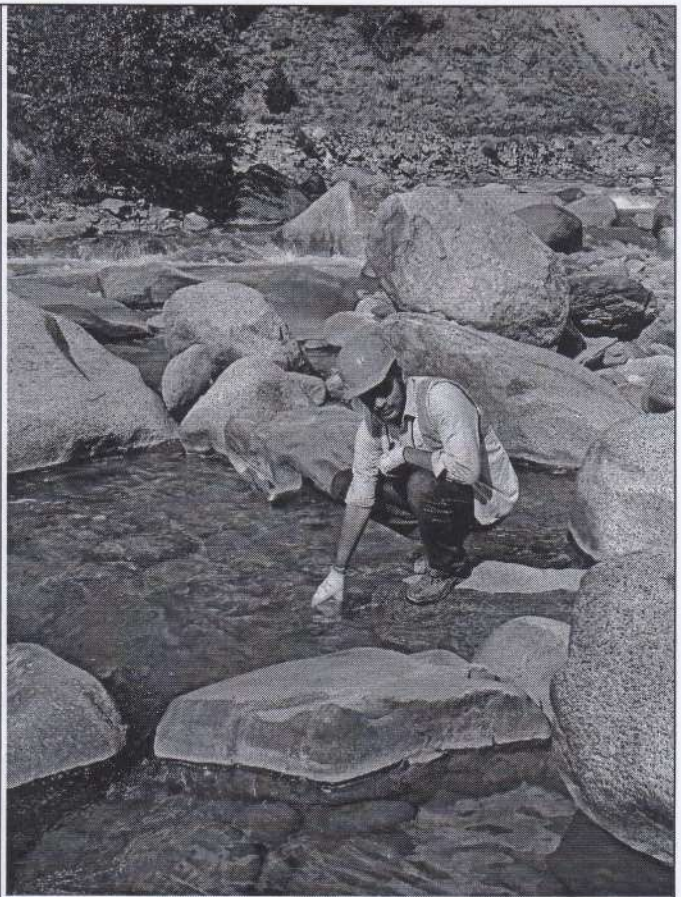
Environmental Monitoring Photographs of TPGPL Project,
Kinnaur, H.P.



Monitoring of Ambient Air & Ambient Noise



Monitoring of Source Emission & Source Noise

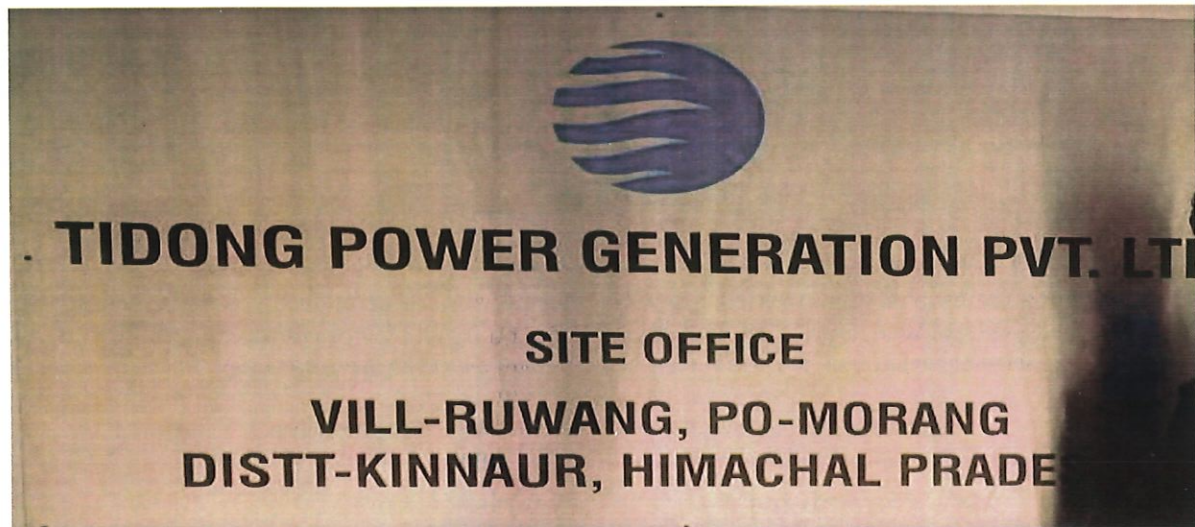


Sampling of Water & Waste Water

ENVIRONMENTAL MONITORING REPORT

FOR

TIDONG POWER GENERATION PVT LTD



M/TPGPL./2023/02

September, 2023



Prepared By

MANTECC CONSULTANTS PVT. LTD.

QCI/NABET Accredited EIA Consultant at S.No.167 as per List of Accredited consultant Organizations/ Rev.25 /Sept 05, 2022 and MoEF&CC approved Laboratory

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SUMMARY OF REPORT

AMBIENT AIR QUALITY

To assess the Ambient Air Quality status in the study area surrounding of Tidong HEP seven monitoring locations were selected on the basis of topographical and meteorological situation. The details of monitoring locations and parameters carried out and testing protocols are as follows:

AMBIENT AIR QUALITY STATUS

Pollutants like PM₁₀, PM_{2.5}, SO₂, NO₂ & CO were collected and analyzed.

Ambient Air Quality - Methodology

Locations	Parameters	Unit of Measurements	CPCB Prescribed Limits	Protocol
1	Power House			
2	Near Site Office	SO ₂	80 (24 Hours)	IS 5182(Part-2):2017
3	Near Store Room	NO ₂	80 (24 Hours)	IS 5182(Part-6):2017
4	ADIT-I	PM ₁₀	100 (24 Hours)	IS 5182(Part-23):2017
5	Dam Site	PM _{2.5}	60 (24 Hours)	IS 5182(Part-24):2019
6	ADIT-II	CO	2 (08 Hours)	IS 5182(Part-10):2019
				NDIR spectroscopy

Conclusion

PM₁₀ (Particulate Matter)

During the monitoring period, it has been observed that the average values of PM₁₀ for all the monitoring stations ranging from 44 µg/m³ to 56 µg/m³. The lowest value was observed as 44 µg/m³ at ADIT-I and the highest value was observed as 56 µg/m³ at Power House. The values of all locations are well within the CPCB prescribed limits for PM₁₀ i.e., 100 µg/m³.

PM_{2.5} (Fine Particulate Matter)

During the monitoring period, it has been observed that the average values of PM_{2.5} for all the monitoring stations ranging from 24 µg/m³ to 33 µg/m³. The lowest value was observed as 24 µg/m³ at ADIT-I and the highest value was observed as 33 µg/m³ at Power House. The values of all locations are well within the CPCB prescribed limits for PM_{2.5} i.e., 60 µg/m³.

Sulphur Dioxide

During the monitoring period, it has been observed that the average values of SO₂ for all the monitoring stations ranging from 06 µg/m³ to 12 µg/m³. The lowest value was observed as 06 µg/m³ at ADIT-I and the highest value was observed as 12 µg/m³ at Power House. The values of all locations are well within the CPCB prescribed limits for SO₂ i.e., 80 µg/m³.

Nitrogen Dioxide

During the monitoring period, it has been observed that the average values of NO₂ for all the monitoring stations ranging from 17 µg/m³ to 26 µg/m³. The lowest value was observed as 17 µg/m³ at ADIT-I and the highest value was observed as 26 µg/m³ at Power House & Dam Site. The values of all locations are well within the CPCB prescribed limits for NO₂ i.e., 80 µg/m³.

Carbon Monoxide

During the monitoring period, it has been observed that the average values of CO for all the monitoring stations ranging from 0.44 mg/m³ to 0.62 mg/m³. The lowest value was observed as 0.44 mg/m³ at ADIT-I and the highest value was observed as 0.62 mg/m³ at Near Store Room. The values of all locations are well within the CPCB prescribed limits for CO i.e., 2.0 mg/m³.

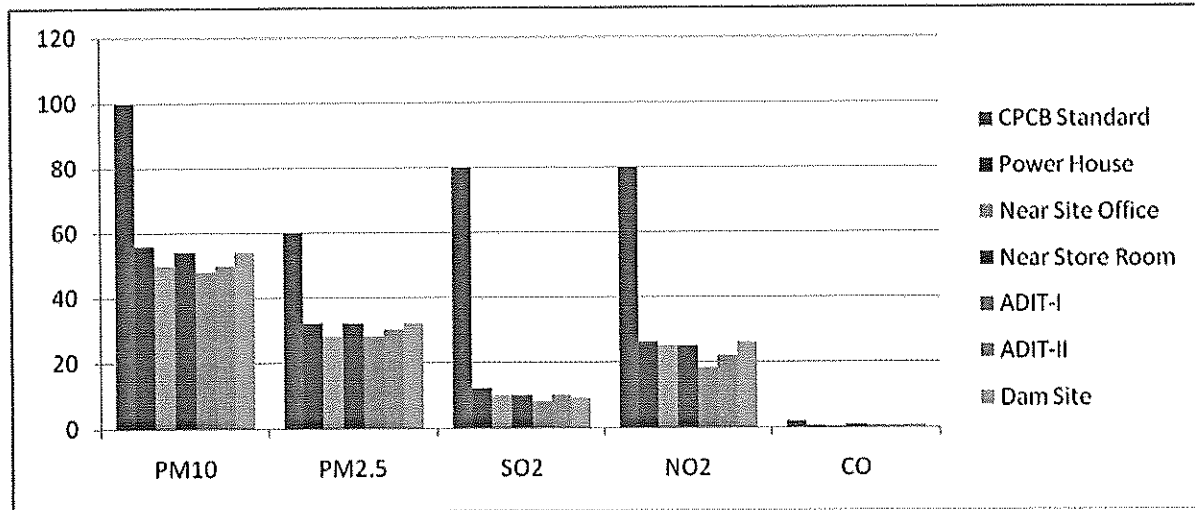


Fig. :- AAQ of Concentration Graph

WATER QUALITY

To assess the Water Quality Status in the vicinity of Tidong HEP 10 sampling locations were selected. The Physico-Chemical parameters are analyzed and compared with IS: 10500 for suitability of the drinking purpose are as follows:

Sl. No.	Parameters	Units	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	6.5-8.5	No Relaxation	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	Agreeable	IS 3025(Part-5):2018
3.	Colour	Hazen Units	5	15	IS 3025(Part-4):2021
4.	Temperature	°C	-----	-----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1	5	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	Agreeable	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	-----	-----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	500	2000	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	200	600	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	200	600	IS 3025(Part-21):2019
11.	Calcium as Ca	mg/l	75	200	IS 3025(Part-40):2019
12.	Magnesium as Mg	mg/l	30	100	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	0.1	0.3	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	250	1000	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	45	No Relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	200	400	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	0.05	No Relaxation	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	<1.0	1.5	IS 3025(Part-60):2019
19.	Free Residual Chlorine	mg/l	0.2	1	IS 3025(Part-26):2021
20.	Ammonia as N	mg/l	0.5	No Relaxation	IS 3025(Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.3	No Relaxation	IS 3025Part-2):2019
23.	Phenolic Compound	mg/l	0.001	0.002	IS 3025(Part-43):2019
24.	Copper as Cu	mg/l	0.05	1.5	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.7	No Relaxation	IS 3025(Part-2):2019

27.	Boron as B	mg/l	0.5	1.0	IS 3025(Part-2):2019
28.	Zinc as Zn	mg/l	5	15	IS 3025(Part-2):2019
29.	Mercury as Hg	mg/l	0.001	No Relaxation	IS 3025(Part-48):2019
30.	Cadmium as Cd	mg/l	0.003	No Relaxation	IS 3025(Part-2):2019
31.	Total Arsenic as As	mg/l	0.01	0.05	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	0.01	No Relaxation	IS 3025(Part-2):2019
33.	Nickel as Ni	mg/l	0.02	No Relaxation	IS 3025(Part-2):2019
34.	Total Chromium as Cr	mg/l	0.05	No Relaxation	IS 3025(Part-2):2019
35.	Total Coliform	MPN/100ml	Shall not be detectable in any 100 ml sample		IS : 1622:1981
36.	Faecal Coliform	MPN/100ml	Shall not be detectable in any 100 ml sample		IS : 1622:1981

Conclusion

The Water & Waste Water samples taken from ground water source for drinking purpose were analyzed and observed, is well within the limit and it confirms the requirement of IS : 10500.


Surface water collected from Tidong River meets the CPCB Water Quality Criteria and best designated use. Waste Water analysis results for all Locations shows that waste water is as per CPCB discharge limit.

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Sample Identification	: A231004 01
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 27.09.2023, 09:55 AM
End Date & Time of Sampling	: 28.09.2023, 09:55 AM
Date of Receipt	: 04.10.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Power House
Sample Submitted by	: Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	30	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.46	02	IS 5182(Part-10):2019 NDIR spectroscopy


Deepak Jha
 Analyzed by:




Gaja Nand Mallick
 Quality Manager:

Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

****End of Report****



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




TC-6440


Sample Identification	:	A231004 02
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	28.09.2023, 11:05 AM
End Date & Time of Sampling	:	29.09.2023, 11:05 AM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Power House
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	33	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.54	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification	:	A231004 03
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	27.09.2023, 01:00 PM
Start Date & Time of Sampling	:	28.09.2023, 01:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Near Site Office
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.48	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:



Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

Notes:

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TC-6440

Sample Identification	:	A231004 04
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	28.09.2023, 01:05 AM
End Date & Time of Sampling	:	29.09.2023, 01:05AM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Near Site Office
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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	46	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	26	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	09	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.54	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A231004 05
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	27.09.2023, 04:00 PM
Start Date & Time of Sampling	:	28.09.2023, 04:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Near Store Room
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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	48	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.46	02	IS 5182(Part-10):2019 NDIR spectroscopy

Deepak
 Deepak Jha
 Analyzed by:



Mallick
 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A231004 06
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	28.09.2023, 04:05 PM
End Date & Time of Sampling	:	29.09.2023, 04:05 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Near Store Room
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.62	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	: A231004 07
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 29.09.2023, 12:00 PM
End Date & Time of Sampling	: 30.09.2023, 12:00 PM
Date of Receipt	: 04.10.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Dam Site Near Batching Plant
Sample Submitted by	: Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	31	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	09	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.52	02	IS 5182(Part-10):2019 NDIR spectroscopy

Deepak Jha
 Deepak Jha
 Analyzed by:



Mallik
 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A231004 08
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	30.09.2023, 12:00 PM
Start Date & Time of Sampling	:	01.10.2023, 12:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Dam Site Near Batching Plant
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.58	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Mand Mallick
 Quality Manager:

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Sample Identification	: A231004 09
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 29.09.2023, 12:00 PM
End Date & Time of Sampling	: 30.09.2023, 12:00 PM
Date of Receipt	: 04.10.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: ADIT-II
Sample Submitted by	: Mr. Ankit Kumar Tiwari
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	46	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	26	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.55	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A231004 10
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	30.09.2023, 12:00 PM
Start Date & Time of Sampling	:	01.10.2023, 12:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	ADIT-II
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	30	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.56	02	IS 5182(Part-10):2019 NDIR spectroscopy


Deepak Jha
 Analyzed by:




Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A231004 11
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	29.09.2023, 12:00 PM
End Date & Time of Sampling	:	30.09.2023, 12:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Adit-I
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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-23):2017
2.	PM _{2.5}	µg/m ³	24	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	06	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	17	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.48	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification	:	A231004 12
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	30.09.2023, 12:00 PM
Start Date & Time of Sampling	:	01.10.2023, 12:00 PM
Date of Receipt	:	04.10.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Adit-I
Sample Submitted by	:	Mr. Ankit Kumar Tiwari
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	48	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.44	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Deepak Jha
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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TC-6440


Sample Identification No.	:	S231004 01
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	30.09.2023
Date of Receipt	:	04.10.2023
Sample Description	:	D.G.Set-320 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Near Site Office
Sample Collected By	:	Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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	:	80 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 Hr.
Stack Temperature (°C)	:	138°C
Ambient Temperature (°C)	:	18°C
Stack Velocity (m/sec.)	:	10.74
Quantity of Emission (Nm ³ /hrs.)	:	228.54

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	54	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	22	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	46	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.26	IS 13270 : 2019	≤3.5




Deepak Jha
 Analyzed by:
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Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	: S231004 02
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 30.09.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Set-250 KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Near Site Office
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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	: 60cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 126°C
Ambient Temperature (°C)	: 18°C
Stack Velocity (m/sec.)	: 9.44
Quantity of Emission (Nm ³ /hrs.)	: 116.36

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	50	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	20	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	46	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.22	IS 13270 : 2019	≤3.5



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Analyzed by:
Notes:




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TC-6440

Sample Identification No.	: S231004 03
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 30.09.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Set-125KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Near Power House
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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	: 40 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 118°C
Ambient Temperature (°C)	: 17°C
Stack Velocity (m/sec.)	: 9.34
Quantity of Emission (Nm ³ /hrs.)	: 52.24

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	18	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	36	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.14	IS 13270 : 2019	≤3.5

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TC-6440

Sample Identification No.	: S231004 04
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 30.09.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Stack 125 KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Near Cement Store
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	: 124°C
Ambient Temperature (°C)	: 17°C
Stack Velocity (m/sec.)	: 10.31
Quantity of Emission (Nm ³ /hrs.)	: 56.79

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	48	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	24	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	40	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.18	IS 13270 : 2019	≤3.5

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TC-6440

Sample Identification No.	: S231004 05
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 01.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Stack 320 KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: ADIT-II
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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 D.G. Set
Normal Operating Schedule	: 1 Hr.
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 130°C
Ambient Temperature (°C)	: 19°C
Stack Velocity (m/sec.)	: 10.63
Quantity of Emission (Nm ³ /hrs.)	: 129.82

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	52	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	26	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	54	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.26	IS 13270 : 2019	≤3.5


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Sample Identification No.	: S231004 06
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 01.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Stack 320 KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: ADIT-I
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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 D.G. Set
Normal Operating Schedule	: 1 Hr.
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 128°C
Ambient Temperature (°C)	: 19°C
Stack Velocity (m/sec.)	: 9.19
Quantity of Emission (Nm ³ /hrs.)	: 112.71

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Test Method	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	58	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	44	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.28	IS 13270 : 2019	≤3.5


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TC-6440

Sample Identification No.	: S231004 07
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 01.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: D.G.Stack 500 KVA
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Dam Site Near Batching Plant
Sample Collected By	: Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	: 136°C
Ambient Temperature (°C)	: 18°C
Stack Velocity (m/sec.)	: 9.96
Quantity of Emission (Nm ³ /hrs.)	: 212.91

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	52	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	26	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	46	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.44	IS 13270 : 2019	≤3.5


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Sample Identification No.	:	S231004 08
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	01.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	D.G.Stack 500 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Dam Site Crusher Plant
Sample Collected By	:	Mr. Ajmal Husain & Mr. Ankit Kumar Tiwari
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 D.G. Set
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)	:	18°C
Stack Velocity (m/sec.)	:	10.06
Quantity of Emission (Nm ³ /hrs.)	:	216.22

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	42	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.32	IS 13270 : 2019	≤3.5

Deepak Jha

Deepak Jha
 Analyzed by:
 Notes:



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Sample Identification No.	:	W231004 01
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	R.O. Water (Inlet) Dam Site
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	-	7.42	6.5-8.5	No Relaxation	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4):2021
4.	Temperature	°C	10	-----	-----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.5	1	5	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	315	-----	-----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	205	500	2000	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	82	200	600	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	146	200	600	IS 3025(Part-21):2019
11.	Calcium as Ca	mg/l	49.6	75	200	IS 3025(Part-40):2019
12.	Magnesium as Mg	mg/l	5.34	30	100	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	30	250	1000	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	8.0	45	No Relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	38	200	400	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025(Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019

25.	Aluminium as Al	mg/l	0.029	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.035	0.7	No Relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2):2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	0.006	0.01	No Relaxation	IS 3025(Part-2):2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025(Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Ajmal
Ajmal Husain
 Analyzed by:



Seal of Lab:

Mallick
Gaja Nand Mallick
 Quality Manager:

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TC-8440

Sample Identification No.	: W231004 02
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 02.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: Drinking Water
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Mr. Ankit Kumar Tiwari
Sample Collected By	: R.O. Water (Outlet) Dam Site
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	-	7.28	6.5-8.5	No Relaxation	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4):2021
4.	Temperature	°C	12	-----	-----	IS 3025(Part-19):2017
5.	Turbidity	NTU	0.6	1	5	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	185	-----	-----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	120	500	2000	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	38	200	600	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	66	200	600	IS 3025(Part-21):2019
11.	Calcium as Ca	mg/l	17.6	75	200	IS 3025(Part-40):2019
12.	Magnesium as Mg	mg/l	5.34	30	100	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	20	250	1000	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	6.2	45	No Relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	26	200	400	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025(Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.029	0.7	No Relaxation	IS 3025(Part-2):2019

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2):2019
31.	Total Arsenic as As	mg/l	0.015	0.01	0.05	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	0.006	0.01	No Relaxation	IS 3025(Part-2):2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025(Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Ajmal
Ajmal Husain
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

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



Sample Identification No.	: W231004 03
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 02.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: Drinking Water
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: R.O.Water (Inlet) Project Site
Sample Collected By	: Mr. Ankit Kumar Tiwari
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	-	7.58	6.5-8.5	No Relaxation	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4):2021
4.	Temperature	°C	14	-----	-----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.4	1	5	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	303	-----	-----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	197	500	2000	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	68	200	600	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	104	200	600	IS 3025(Part-21):2019
11.	Calcium as Ca	mg/l	29.6	75	200	IS 3025(Part-40):2019
12.	Magnesium as Mg	mg/l	7.29	30	100	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	34	250	1000	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	7.2	45	No Relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	38	200	400	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.026	0.3	No Relaxation	IS 3025(Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.022	0.7	No Relaxation	IS 3025(Part-2):2019

Test Report No.: W231004 C -03.

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2):2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025(Part-2):2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025(Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Seal of Lab:

Mallik
Gaja Nand Mallick
Quality Manager:

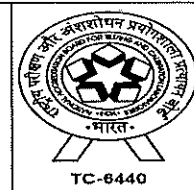
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 Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com



TC-6440

Sample Identification No.	:	W231004 04
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	R.O.Water (Outlet) Project Site
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	-	7.36	6.5-8.5	No Relaxation	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025(Part-4):2021
4.	Temperature	°C	12	-----	-----	IS 3025(Part-19):2017
5.	Turbidity	NTU	0.5	1	5	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	245	-----	-----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	159	500	2000	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	58	200	600	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	70	200	600	IS 3025(Part-21):2019
11.	Calcium as Ca	mg/l	20.8	75	200	IS 3025(Part-40):2019
12.	Magnesium as Mg	mg/l	4.37	30	100	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	32	250	1000	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	5.8	45	No Relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	22	200	400	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025(Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025(Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025(Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.026	0.3	No Relaxation	IS 3025(Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.021	0.7	No Relaxation	IS 3025(Part-2):2019

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025(Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025(Part-2):2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025(Part-2):2019
33.	Nickel as Ni	mg/l	0.005	0.02	No Relaxation	IS 3025(Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025(Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Ajmal
Ajmal Husain
 Analyzed by:



Seal of Lab:

Mallick
Gaja Nand Mallick
 Quality Manager:

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



TC-6440

Sample Identification No.	: W231004 05
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 02.10.2023
Date of Receipt	: 04.10.2023
Sample Description	: Surface Water (Tidong River)
Sample Condition	: Ok
Start Date of Analysis	: 04.10.2023
End Date of Analysis	: 10.10.2023
Date of Reporting	: 10.10.2023
Sampling Location	: Tidong River Up Stream Near Dam Site
Sample Collected By	: Mr. Ankit Kumar Tiwari
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	-	7.64	6.5-8.5	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4):2021
4.	Temperature	°C	14	----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.6	----	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	363	----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	236	----	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	74	----	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	154	----	IS 3025(Part-21):2019
11.	Calcium as CaCO ₃	mg/l	106	----	IS 3025(Part-40):2019
12.	Magnesium as CaCO ₃	mg/l	48	----	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.01	----	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	56	----	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	6.8	----	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	40	----	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60):2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34):2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428,2018
21.	Iron as Fe	mg/l	0.021	----	IS 3025(Part-2):2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43):2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2):2019
24.	Aluminium as Al	mg/l	0.041	----	IS 3025(Part-2):2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.037	----	IS 3025(Part-2):2019
27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2):2019

28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2):2019
29.	Total Arsenic as As	mg/l	<0.005	----	IS 3025(Part-2):2019
30.	Lead as Pb	mg/l	0.006	----	IS 3025(Part-2):2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2):2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2):2019
33.	Dissolved Oxygen	mg/l	7.8	≥4mg/l	IS 3025(Part-38):2019
34.	BOD	mg/l	5.4	----	IS 3025(Part-44):2019
35.	COD	mg/l	40	----	IS 3025(Part-58):2017
36.	Total Coliform	MPN/100ml	940	----	IS 1622:1981
37.	Faecal Coliform	MPN/100ml	580	----	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	

Ajmal
Ajmal Husain
Analyzed by:




Seal of Lab:

Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W231004 06
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	Tidong River Down Stream Near Power House
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	-	7.42	6.5-8.5	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4):2021
4.	Temperature	°C	15	----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.2	----	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	337	----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	219	----	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	88	----	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	112	----	IS 3025(Part-21):2019
11.	Calcium as CaCO ₃	mg/l	78	----	IS 3025(Part-40):2019
12.	Magnesium as CaCO ₃	mg/l	34	----	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	----	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	42	----	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	4.8	----	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	32	----	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60):2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34):2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428,2018
21.	Iron as Fe	mg/l	0.023	----	IS 3025(Part-2):2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43):2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2):2019
24.	Aluminium as Al	mg/l	0.046	----	IS 3025(Part-2):2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.037	----	IS 3025(Part-2):2019

27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2):2019
29.	Total Arsenic as As	mg/l	0.005	----	IS 3025(Part-2):2019
30.	Lead as Pb	mg/l	0.005	----	IS 3025(Part-2):2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2):2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2):2019
33.	Dissolved Oxygen	mg/l	6.8	≥4mg/l	IS 3025(Part-38):2019
34.	BOD	mg/l	7.2	----	IS 3025(Part-44):2019
35.	COD	mg/l	62	----	IS 3025(Part-58):2017
36.	Total Coliform	MPN/100ml	1090	----	IS 1622:1981
37.	Faecal Coliform	MPN/100ml	542	----	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	

Ajmal
Ajmal Husain
Analyzed by:



Seal of Lab:

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Sample Identification No.	:	W231004 07
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	STP Un-Treated Near Power House
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.74	----	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	418	----	IS 3025(Part-17):2021
3.	COD	mg/l	582	----	IS 3025(Part-58):2017
4.	BOD	mg/l	74	----	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	182	----	IS 3025(Part-39):2021

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: W231004 C -08.



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TC-6440

Sample Identification No.	:	W231004 08
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	STP Treated Near Power House
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.86	5.5-9.0	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	78	100	IS 3025(Part-17):2021
3.	COD	mg/l	119	250	IS 3025(Part-58):2017
4.	BOD	mg/l	16	30	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	12	20	IS 3025(Part-39):2021

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****



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TC-6440

Sample Identification No.	:	W231004 09
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	STP Un-Treated Near Dam Site
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.82	----	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	86	----	IS 3025(Part-17):2021
3.	COD	mg/l	554	----	IS 3025(Part-58):2017
4.	BOD	mg/l	72	----	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	166	----	IS 3025(Part-39):2021

Ajmal
Ajmal Husain
 Analyzed by:

Seal of Lab:

Mallick
Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification No.	:	W231004 10
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	02.10.2023
Date of Receipt	:	04.10.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	04.10.2023
End Date of Analysis	:	10.10.2023
Date of Reporting	:	10.10.2023
Sampling Location	:	STP Treated Near Dam Site
Sample Collected By	:	Mr. Ankit Kumar Tiwari
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	Tolerance Limits	Test Method
1.	pH	-	6.82	5.5-9.0	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	86	100	IS 3025(Part-17):2021
3.	COD	mg/l	107	250	IS 3025(Part-58):2017
4.	BOD	mg/l	14	30	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	10	20	IS 3025(Part-39) : 2021

Ajmal
Ajmal Husain
 Analyzed by:


Seal of Lab:

Mallik
Gaja Nand Mallick
 Quality Manager:

Notes:

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- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

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

	<p>MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@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	:	27.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Power House
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.82	40.10	37.10	56.70	48.19	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

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:



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TC-6440

Location	Power House			
Date	Day/ Hours	Lmin	Leq	Lmax
27.09.2023	06:00AM-07:00AM	44.20	45.23	46.30
	07:00AM-08:00AM	44.30	46.29	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	54.46	56.30
	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	55.42	56.40
	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	42.20	46.70
	11:00PM-12:00AM	38.70	41.19	43.90
	12:00AM-01:00AM	37.50	40.34	43.50
	01:00AM-02:00AM	40.20	42.58	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	37.10	48.19	56.70

Prabhat

Prabhat Ranjan Dutta
Analyzed by:



Seal of Lab:

Mallick

Gaja Nand Mallick
Quality Manager:

****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	:	27.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Site Office
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.82	40.10	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

Prabhat
 Prabhat Ranjan Dutta
 Analyzed by:



Mallick
 Gaja Nand Mallick
 Quality Manager:



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TC-6440

Location	Near Site Office			
Date	Day/ Hours	Lmin	Leq	Lmax
27.09.2023	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

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

****End of Report****

Test Report No.: N231004 C -03.



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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	:	28.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Store Room
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	52.40	43.00	42.60	58.90	52.21	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

Prabhat
Prabhat Ranjan Dutta
Analyzed by:

Seal of Lab:

Mallick
Gaja Nand Mallick
Quality Manager:



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TC-6440

Location	Near Store Room			
Date	Day/ Hours	Lmin	Leq	Lmax
28.09.2023	06:00AM-07:00AM	51.80	54.83	58.70
	07:00AM-08:00AM	53.20	56.37	58.80
	08:00AM-09:00AM	53.20	55.94	58.80
	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	42.60	45.13	49.00
	12:00AM-01:00AM	43.10	43.92	44.80
	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	43.10	44.69	49.30	
	Average	42.60	52.21	58.90

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

End of Report

Test Report No.: N231004 C -04.



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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	:	29.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Dam Site
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.10	38.87	36.50	57.10	47.48	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

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:



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TC-6440

Location	Dam Site			
Date	Day/ Hours	Lmin	Leq	Lmax
29.09.2023	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

Prabhat

Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab:

Mallick

Gaja Nand Mallick
 Quality Manager:

****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	:	30.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-I
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.82	40.10	36.40	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

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:



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TC-6440

Location	ADIT-I			
Date	Day/ Hours	Lmin	Leq	Lmax
30.09.2023	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	36.40	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	36.40	48.22	57.20

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



****End of Report****

Hausik
Gaja Nand Mallick
Quality Manager:

Test Report No.: N231004 C -06.



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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	:	01.10.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-II
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.08	38.79	37.30	58.20	47.53	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

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:



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TC-6440

Location	ADIT-II			
Date	Day/ Hours	Lmin	Leq	Lmax
01.10.2023	06:00AM-07:00AM	43.10	49.93	47.20
	07:00AM-08:00AM	44.50	44.98	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	56.07	58.20
	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	43.10	46.31	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	37.30	38.93	40.50
02:00AM-03:00AM	37.50	38.77	40.40	
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	37.30	47.53	58.20

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab:

Mallick
Gaja Nand Mallick
 Quality Manager:

****End of Report****

	<p>MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,e-mail :manteclab@gmail.com</p>	 TC-6440
---	--	--

Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	30.09.2023
Date of Reporting	:	04.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	40 KVA
Sampling Location	:	Near Site Office
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.78	63.79	24.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	61.40	46.20	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	70.20	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

****End of Report****

	<p>MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com</p>	 TC-6440
---	--	--

Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	: 30.09.2023
Date of Reporting	: 10.10.2023
Sample Description	: Source Noise Monitoring
Capacity of D.G.(KVA)	: 250 KVA
Sampling Location	: Near Site Office
Monitored by	: Mr. Ankit Kumar Tiwari
Test Method	: IS 4758 : 2017

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	81.94	62.99	23.30
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	62.50	48.60	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	90.50	67.20	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

****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	:	30.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Near Power House
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.46	65.58	23.70
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	66.50	45.40	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	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

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab:

Mallick
Gaja Nand Mallick
 Quality Manager:

****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	:	30.09.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	125 KVA
Sampling Location	:	Near Cement Store
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.59	65.43	24.10
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	68.20	44.80	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.60	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

Prabhat
 Prabhat Ranjan Dutta
 Analyzed by:



Mallik
 Gaja Nand Mallick
 Quality Manager:

****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	: 01.10.2023
Date of Reporting	: 10.10.2023
Sample Description	: Source Noise Monitoring
Capacity of D.G.(KVA)	: 320 KVA
Sampling Location	: ADIT-II
Monitored by	: Mr. Ankit Kumar Tiwari
Test Method	: IS 4758 : 2017

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	80.12	62.77	23.90
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	68.50	43.60	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	90.40	66.50	--
4.	CPCB Limit in Leq dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

Prabhat
 Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab:

Mallick
 Gaja Nand Mallick
 Quality Manager:

****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	:	01.10.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	320 KVA
Sampling Location	:	ADIT-I
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	88.41	63.88	23.80
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	61.60	45.80	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.60	70.80	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

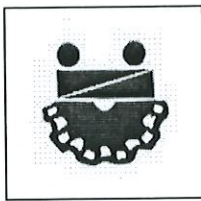
Prabhat
 Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab:

Mallick
 Gaja Nand Mallick
 Quality Manager:

****End of Report****



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



Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	01.10.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	500 KVA
Sampling Location	:	Dam Site near Crusher Plant (500 KVA)
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	87.41	65.88	23.40
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	70.50	46.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.60	71.20	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

****End of Report****

	MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,e-mail :manteclab@gmail.com	 TC-8440
---	---	--

Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Monitoring	:	01.10.2023
Date of Reporting	:	10.10.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G.(KVA)	:	500 KVA
Sampling Location	:	Dam Site Batching Plant
Monitored by	:	Mr. Ankit Kumar Tiwari
Test Method	:	IS 4758 : 2017

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	91.40	64.38	24.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	74.80	49.70	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.60	70.60	--
4.	CPCB Limit in L_{eq} dB(A)	As per CPCB Noise limit For D.G. Set Upto 1000 KVA	--	75.00	25.00

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Seal of Lab:

Mallick
Gaja Nand Mallick
Quality Manager:

****End of Report****



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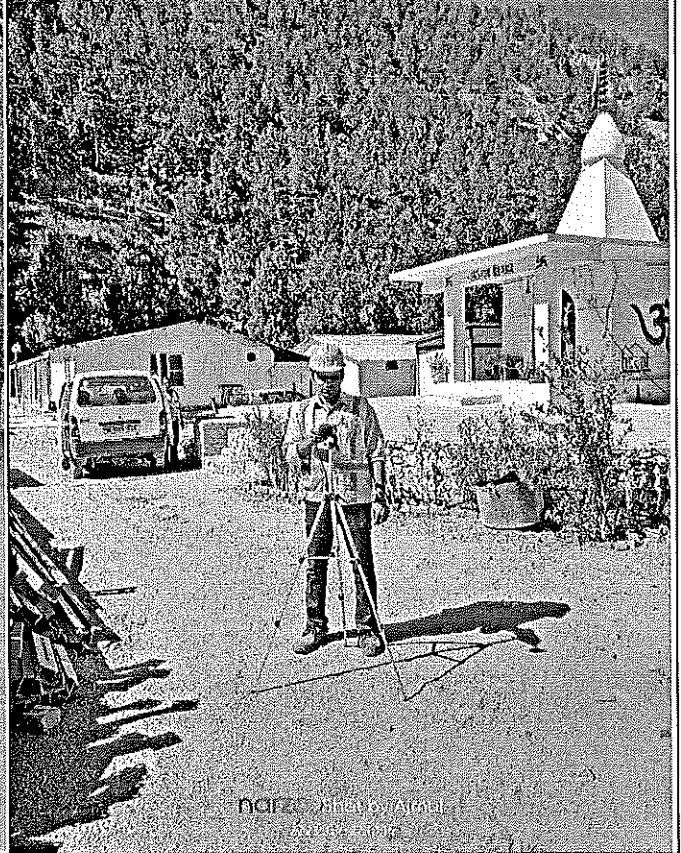
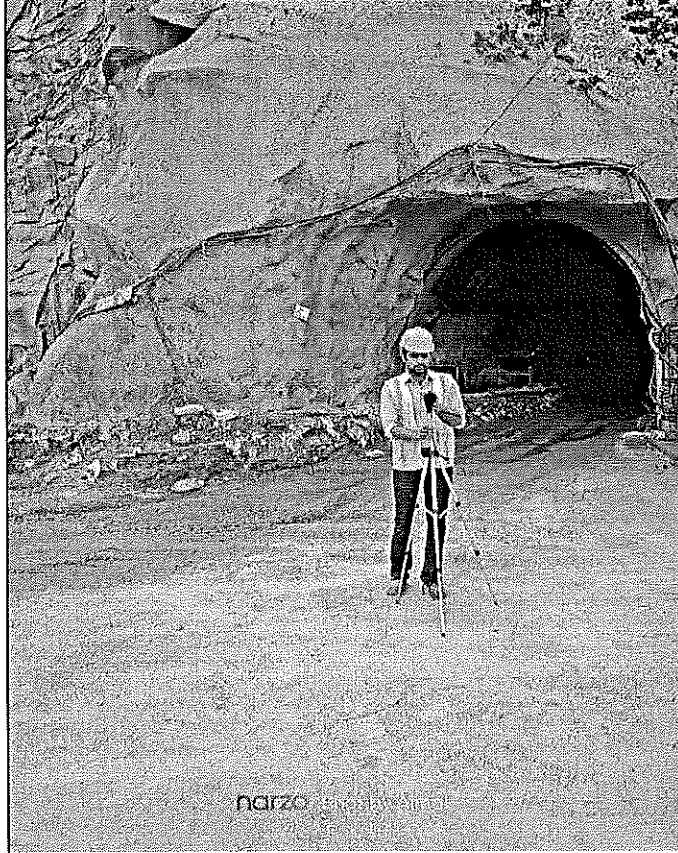
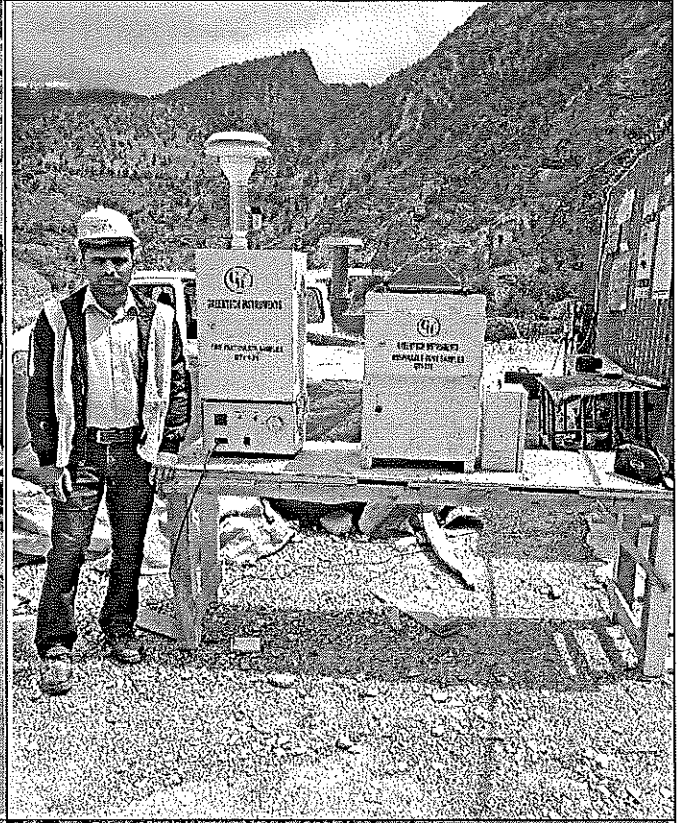
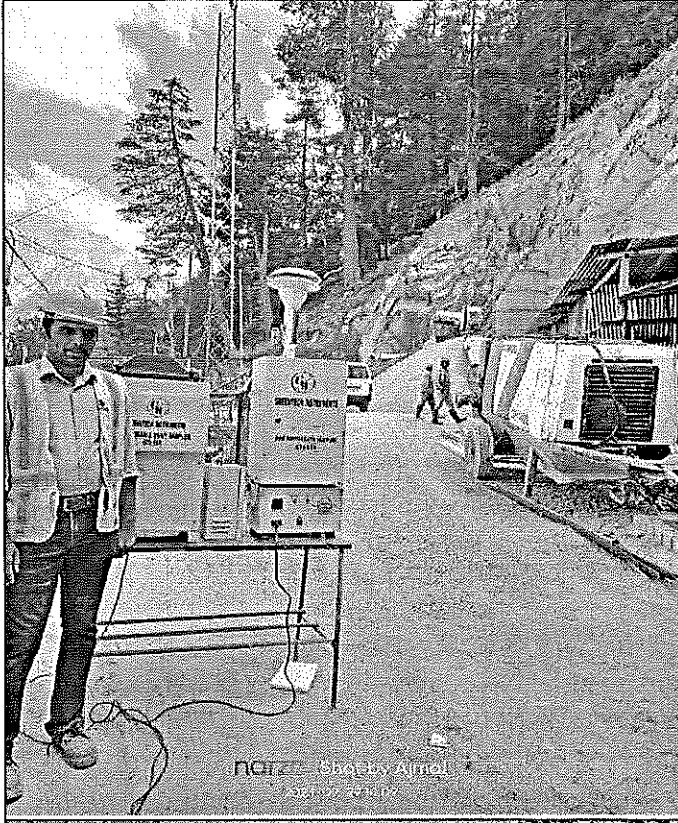
TC-6440

Traffic Survey

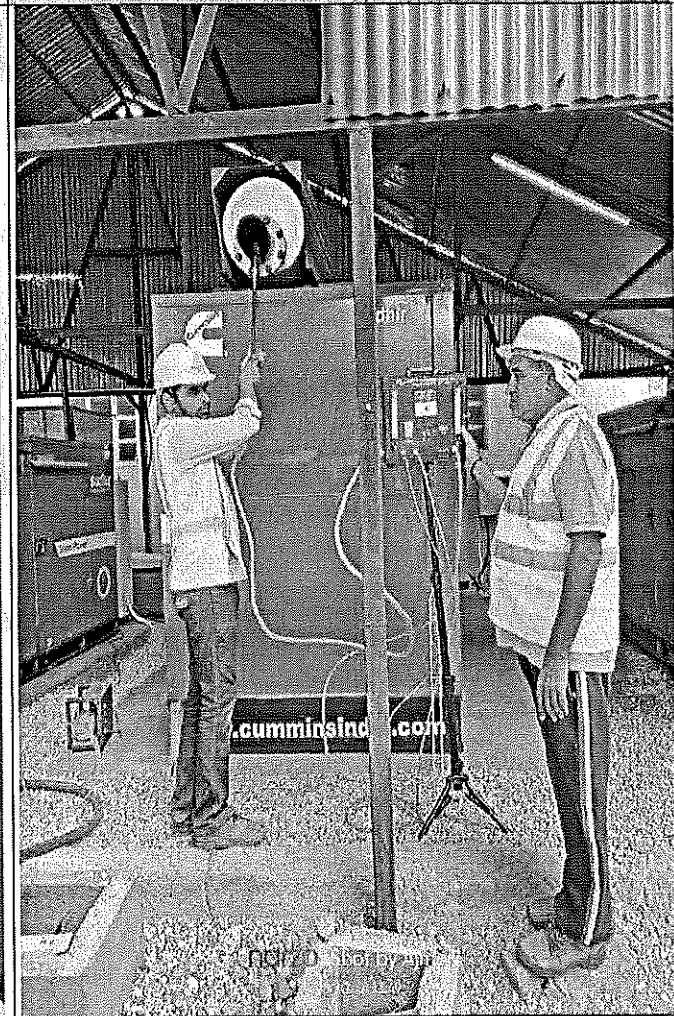
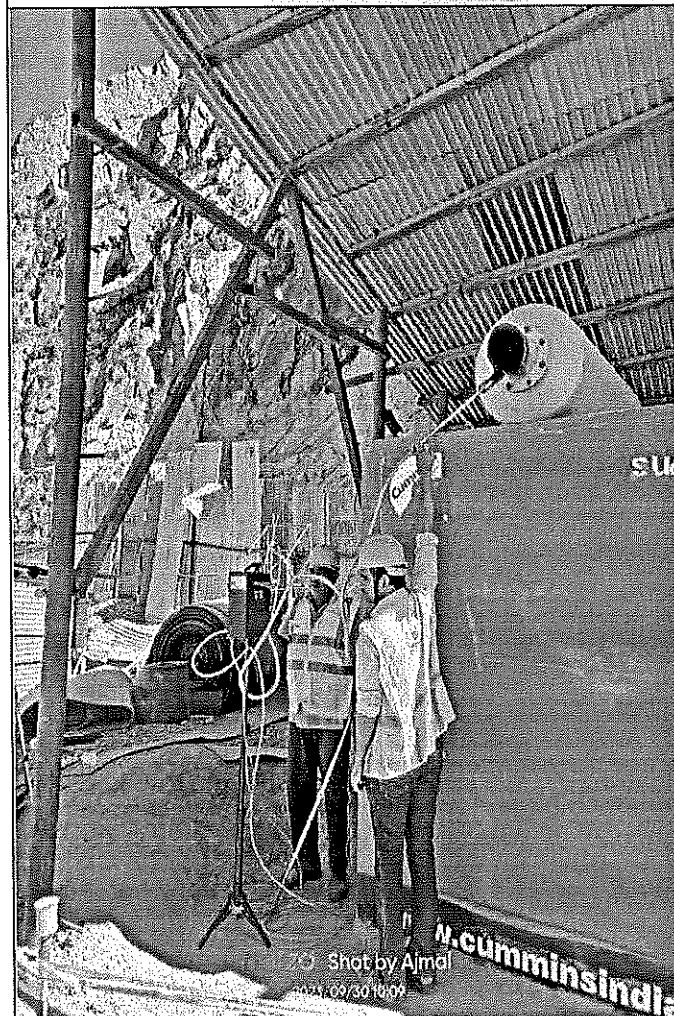
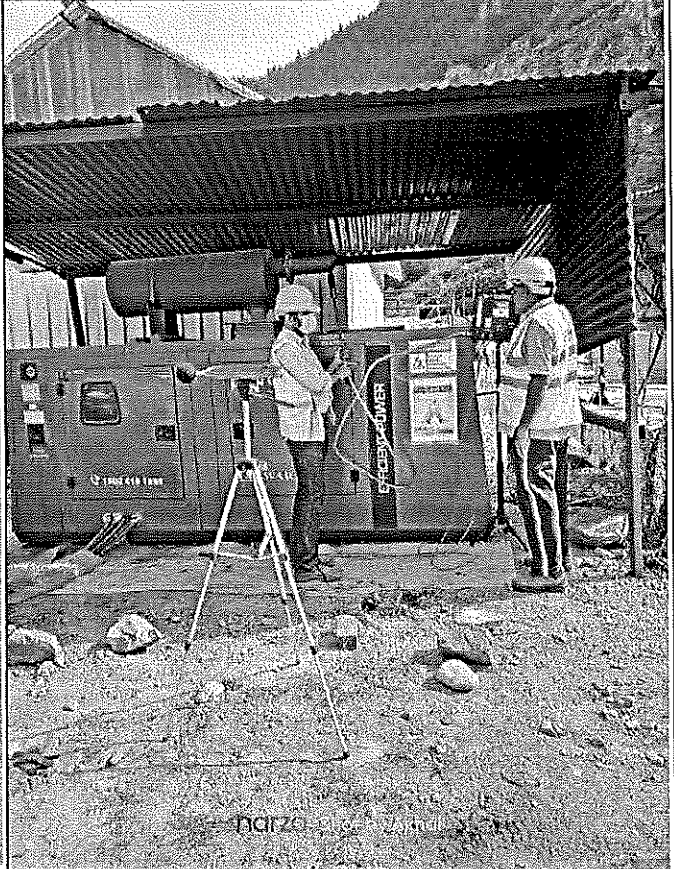
Location	Check Post, Village - Ruwang, Distt.- Kinnaur, Himachal Pradesh				
Date	29.09.2023 to 30.09.2023				
	Type of Vehicles				
Time (Hrs)	Project LCV	Other LCV	Other Trucks/Bus	Project Trucks	2-Wheelers
06:00-07:00	00	00	00	00	00
07:00-08:00	00	00	00	00	00
08:00-09:00	02	00	00	00	00
09:00-10:00	03	01	00	01	00
10:00-11:00	02	00	00	01	01
11:00-12:00	00	03	00	02	00
12:00-13:00	02	00	00	01	00
13:00-14:00	02	01	00	01	00
14:00-15:00	00	02	00	01	00
15:00-16:00	03	01	00	02	01
16:00-17:00	00	03	00	01	00
17:00-18:00	01	01	00	00	00
18:00-19:00	02	02	00	01	00
19:00-20:00	00	00	00	00	00
20:00-21:00	02	01	00	00	00
21:00-22:00	00	00	00	01	00
22:00-23:00	00	01	00	00	00
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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
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05:00-06:00	00	00	00	00	00
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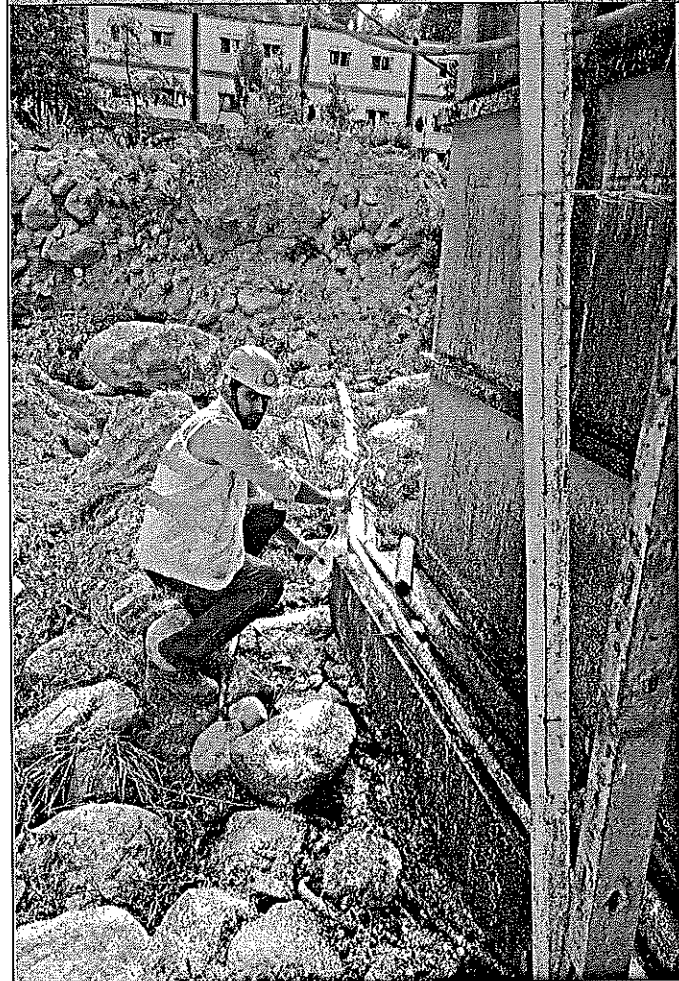
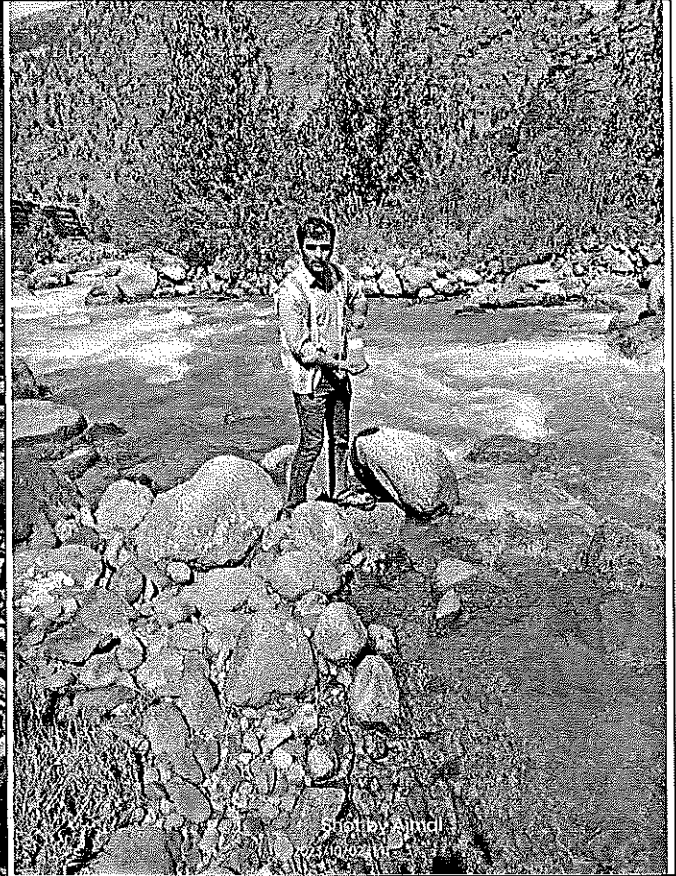
**Environmental Monitoring Photographs of TPGPL Project,
Kinnaur, H.P.**



Monitoring of Ambient Air & Ambient Noise



Monitoring of Source Emission & Source Noise

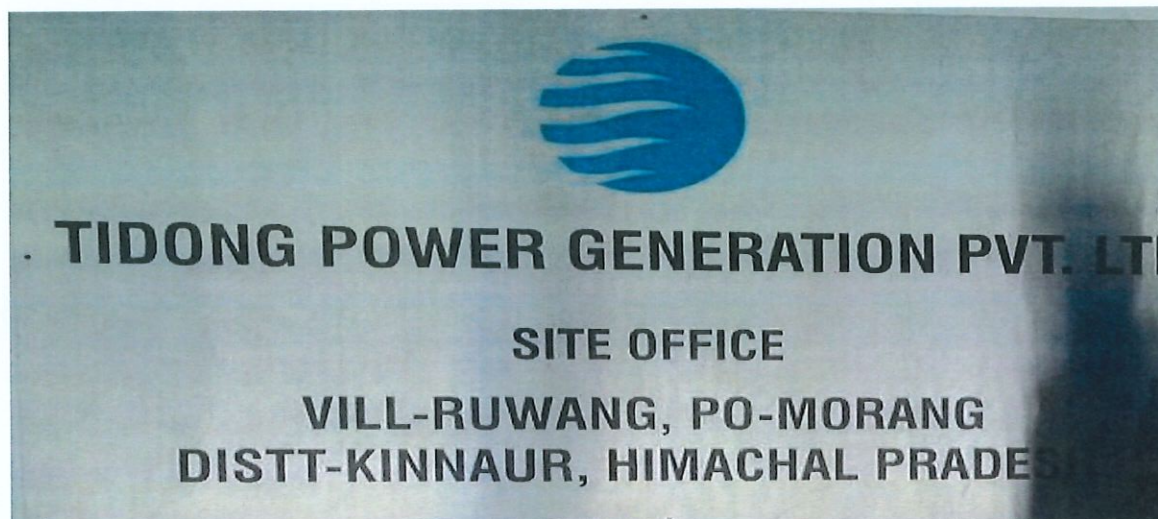


Sampling of Water & Waste Water

ENVIRONMENTAL MONITORING REPORT

FOR

TIDONG POWER GENERATION PVT LTD



M/TPGPL./2023/03

December, 2023



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI/NABET Accredited EIA Consultant at S.No.167 as per List of Accredited consultant

Organizations/ Rev.25 /Sept 05, 2022 and MoEF&CC approved Laboratory

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Website: www.manteconsultants.com

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SUMMARY OF REPORT

AMBIENT AIR QUALITY

To assess the Ambient Air Quality status in the study area surrounding of Tidong HEP seven monitoring locations were selected on the basis of topographical and meteorological situation. The details of monitoring locations and parameters carried out and testing protocols are as follows:

AMBIENT AIR QUALITY STATUS

Pollutants like PM₁₀, PM_{2.5}, SO₂, NO₂ & CO were collected and analyzed.

Ambient Air Quality - Methodology

Locations	Parameters	Unit of Measurements	CPCB Prescribed Limits	Protocol
1 Near Site Office	SO ₂ NO ₂ PM ₁₀ PM _{2.5} CO	µg/ m ³ µg/ m ³ µg/m ³ µg/ m ³ mg/m ³	80 (24 Hours) 80 (24 Hours) 100 (24 Hours) 60 (24 Hours) 2 (08 Hours)	IS 5182(Part-2):2017 IS 5182(Part-6):2017 IS 5182(Part-23):2017 IS 5182(Part-24):2019 IS 5182(Part-10):2019 NDIR spectroscopy
2 Near Store Room				
3 ADIT-I				
4 ADIT-II				
5 Dam Site Near Batching Plant				

Conclusion

PM₁₀ (Particulate Matter)

During the monitoring period, it has been observed that the average values of PM₁₀ for all the monitoring stations ranging from 42 µg/m³ to 58 µg/m³. The lowest value was observed as 42µg/m³ at Near Site Office and the highest value was observed as 58 µg/m³ at Near Store Room. The values of all locations are well within the CPCB prescribed limits for PM₁₀ i.e., 100 µg/m³.

PM_{2.5} (Fine Particulate Matter)

During the monitoring period, it has been observed that the average values of PM_{2.5} for all the monitoring stations ranging from 24 µg/m³ to 34 µg/m³. The lowest value was observed as 24 µg/m³ at ADIT-I and the highest value was observed as 34 µg/m³ at Near Store Room. The values of all locations are well within the CPCB prescribed limits for PM_{2.5} i.e., 60 µg/m³.

Sulphur Dioxide

During the monitoring period, it has been observed that the average values of SO₂ for all the monitoring stations ranging from 05 µg/m³ to 14 µg/m³. The lowest value was observed as 05 µg/m³ at ADIT-II and the highest value was observed as 14 µg/m³ at Near Store Room. The values of all locations are well within the CPCB prescribed limits for SO₂ i.e., 80 µg/m³.

Nitrogen Dioxide

During the monitoring period, it has been observed that the average values of NO₂ for all the monitoring stations ranging from 20 µg/m³ to 30 µg/m³. The lowest value was observed as 20µg/m³ at ADIT-II and the highest value was observed as 30 µg/m³ at Dam Site. The values of all locations are well within the CPCB prescribed limits for NO₂ i.e., 80 µg/m³.

Carbon Monoxide

During the monitoring period, it has been observed that the average values of CO for all the monitoring stations ranging from 0.42 mg/m³ to 0.62 mg/m³. The lowest value was observed as 0.42 mg/m³ at ADIT-I and the highest value was observed as 0.62 mg/m³ at Near Store Room. The values of all locations are well within the CPCB prescribed limits for CO i.e., 2.0 mg/m³.

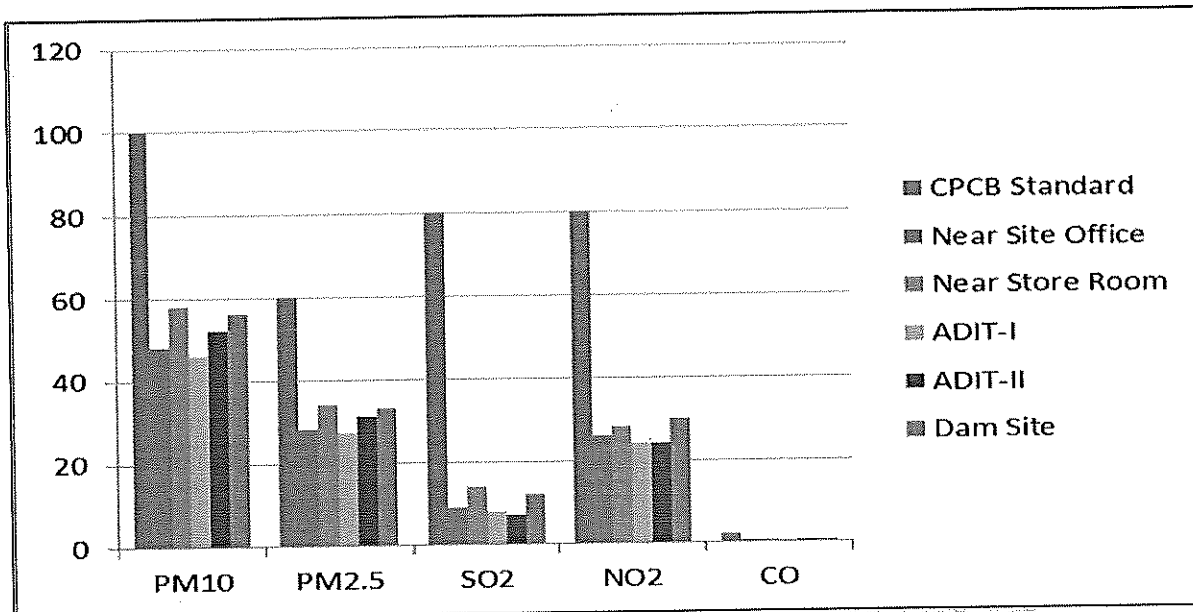


Fig. :- AAQ of Concentration Graph

WATER QUALITY

To assess the Water Quality Status in the vicinity of Tidong HEP 08 sampling locations were selected. The Physico-Chemical parameters are analyzed and compared with IS: 10500 for suitability of the drinking purpose are as follows:

Sl. No.	Parameters	Units	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	6.5-8.5	No Relaxation	IS 3025(Part-11) : 2022
2.	Odour	-	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Colour	Hazen Units	5	15	IS 3025(Part-4) : 2021
4.	Temperature	°C	-----	-----	IS 3025(Part-19) : 2017
5.	Turbidity	NTU	1	5	IS 3025(Part-10) : 2017
6.	Taste	-	Agreeable	Agreeable	IS 3025(Part-7&8) : 2017
7.	Conductivity	µmhos/cm	-----	-----	IS 3025(Part-14) : 2019
8.	Total Dissolved Solids	mg/l	500	2000	IS 3025(Part-16) : 2017
9.	Alkalinity as CaCO ₃	mg/l	200	600	IS 3025(Part-23) : 2019
10.	Total Hardness as CaCO ₃	mg/l	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	75	200	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	30	100	IS 3025(Part-46) : 2019
13.	Manganese as Mn	mg/l	0.1	0.3	IS 3025(Part-2) : 2019
14.	Chloride as Cl	mg/l	250	1000	IS 3025(Part-32) : 2019
15.	Nitrate as NO ₃	mg/l	45	No Relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	200	400	IS 3025(Part-24) : 2019
17.	Sulphide as H ₂ S	mg/l	0.05	No Relaxation	IS 3025(Part-29) : 2019
18.	Fluoride as F	mg/l	<1.0	1.5	IS 3025(Part-60) : 2019
19.	Free Residual Chlorine	mg/l	0.2	1	IS 3025(Part-26) : 2021
20.	Ammonia as N	mg/l	0.5	No Relaxation	IS 3025(Part-34) : 2019
21.	Anionic Detergents as MBAS	mg/l	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	0.3	No Relaxation	IS 3025Part-2) : 2019
23.	Phenolic Compound	mg/l	0.001	0.002	IS 3025(Part-43) : 2019
24.	Copper as Cu	mg/l	0.05	1.5	IS 3025(Part-2) : 2019

25.	Aluminium as Al	mg/l	0.03	0.2	IS 3025(Part-2) : 2019
26.	Barium as Ba	mg/l	0.7	No Relaxation	IS 3025(Part-2) : 2019
27.	Boron as B	mg/l	0.5	1.0	IS 3025(Part-2) : 2019
28.	Zinc as Zn	mg/l	5	15	IS 3025(Part-2) : 2019
29.	Mercury as Hg	mg/l	0.001	No Relaxation	IS 3025(Part-48) : 2019
30.	Cadmium as Cd	mg/l	0.003	No Relaxation	IS 3025(Part-2) : 2019
31.	Total Arsenic as As	mg/l	0.01	0.05	IS 3025(Part-2) : 2019
32.	Lead as Pb	mg/l	0.01	No Relaxation	IS 3025(Part-2) : 2019
33.	Nickel as Ni	mg/l	0.02	No Relaxation	IS 3025(Part-2) : 2019
34.	Total Chromium as Cr	mg/l	0.05	No Relaxation	IS 3025(Part-2) : 2019
35.	Total Coliform	MPN/100ml	Absent	Absent	IS : 1622 : 1981
36.	Faecal Coliform	MPN/100ml	Absent	Absent	IS : 1622 : 1981

Conclusion

The Water & Waste Water samples taken from ground water source for drinking purpose were analyzed and observed, is well within the limit and it confirms the requirement of IS : 10500.

Surface water collected from Tidong River meets the CPCB Water Quality Criteria and best designated use. Waste Water analysis results for all Locations shows that waste water is as per CPCB discharge limit.



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TC-6440

Sample Identification	: A231223 01
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 17.12.2023, 09:55 AM
End Date & Time of Sampling	: 18.12.2023, 09:55 AM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Site Office
Sample Submitted by	: Mr. Deepak Kumar Jha
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	48	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	07	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.50	02	IS 5182(Part-10):2019 NDIR spectroscopy

Msh
 Manoranjan
 Analyzed by:



Abhishek
 Gaja Nand Mallick
 Quality Manager:

Notes:

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TC-6440

Sample Identification	: A231223 02
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 18.12.2023, 10:05 AM
End Date & Time of Sampling	: 19.12.2023, 10:05 AM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Site Office
Sample Submitted by	: Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	25	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	09	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.48	02	IS 5182(Part-10):2019 NDIR spectroscopy

Manoranjan
 Manoranjan
 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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Test Report No.: A231223 C -03.



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TC-6440

Sample Identification	:	A231223 03
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	17.12.2023, 12:00 PM
Start Date & Time of Sampling	:	18.12.2023, 12:00 PM
Date of Receipt	:	23.12.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	Near Store Room
Sample Submitted by	:	Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	30	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.54	02	IS 5182(Part-10):2019 NDIR spectroscopy


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A231223 04
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 18.12.2023, 01:05 AM
End Date & Time of Sampling	: 19.12.2023, 01:05AM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Store Room
Sample Submitted by	: Mr. Deepak Kumar Jha
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	58	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	34	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.62	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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TC-8440

Sample Identification	:	A231223 05
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	19.12.2023, 04:00 PM
Start Date & Time of Sampling	:	20.12.2023, 04:00 PM
Date of Receipt	:	23.12.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	ADIT-I
Sample Submitted by	:	Mr. Deepak Kumar Jha
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	46	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	27	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	08	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.48	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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TC-6440

Sample Identification	: A231223 06
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 20.12.2023, 04:05 PM
End Date & Time of Sampling	: 21.12.2023, 04:05 PM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: ADIT-I
Sample Submitted by	: Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	24	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	06	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.42	02	IS 5182(Part-10):2019 NDIR spectroscopy

M. Jha
 Manoranjan
 Analyzed by:



G. N. Mallick
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A231223 07
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 19.12.2023, 12:00 PM
End Date & Time of Sampling	: 20.12.2023, 12:00 PM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: ADIT-II
Sample Submitted by	: Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	31	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	07	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.52	02	IS 5182(Part-10):2019 NDIR spectroscopy

Msh
 Manoranjan
 Analyzed by:



Manoj
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A231223 08
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 20.12.2023, 12:00 PM
Start Date & Time of Sampling	: 21.12.2023, 12:00 PM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: ADIT-II
Sample Submitted by	: Mr. Deepak Kumar Jha
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	48	100	IS 5182(Part-23):2017
2.	PM _{2.5}	µg/m ³	28	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	05	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.44	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A231223 09
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	: 19.12.2023, 12:00 PM
End Date & Time of Sampling	: 20.12.2023, 12:00 PM
Date of Receipt	: 23.12.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Dam Site Near Batching Plant
Sample Submitted by	: Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	32	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.56	02	IS 5182(Part-10):2019 NDIR spectroscopy

M.S.J.
Manoranjan
 Analyzed by:



Deepak
Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A231223 10
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Start Date & Time of Sampling	:	20.12.2023, 12:00 PM
Start Date & Time of Sampling	:	21.12.2023, 12:00 PM
Date of Receipt	:	23.12.2023
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	Dam Site Near Batching Plant
Sample Submitted by	:	Mr. Deepak Kumar Jha
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-23):2017
2.	PM _{2.5}	µg/m ³	33	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2017
4.	NO ₂	µg/m ³	30	80	IS 5182(Part-6): 2017
5.	CO	mg/m ³	0.55	02	IS 5182(Part-10):2019 NDIR spectroscopy


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

Notes:

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Test Report No.: S231223 C -01.

	<p style="text-align: center;">MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com</p>	 TC-6440
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Sample Identification No.	: S231223 01
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 18.12.2023
Date of Receipt	: 23.12.2023
Sample Description	: D.G.Set-320 KVA
Sample Condition	: Ok
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Site Office (320 KVA)
Sample Collected By	: Mr. Deepak Kumar Jha & Mr. Kaptan Singh
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	: 80 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 130°C
Ambient Temperature (°C)	: 6°C
Stack Velocity (m/sec.)	: 10.39
Quantity of Emission (Nm ³ /hrs.)	: 225.496

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	56	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	26	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	44	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.028	IS 13270 : 2019	≤3.5


Manoranjan
Analyzed by:
Notes:




Gaja Nand Mallick
Quality Manager:

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TC-6440

Sample Identification No.	: S231223 02
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 18.12.2023
Date of Receipt	: 23.12.2023
Sample Description	: D.G.Set-250 KVA
Sample Condition	: Ok
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Site Office (250 KVA)
Sample Collected By	: Mr. Deepak Kumar Jha & Mr. Kaptan Singh
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	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 126°C
Ambient Temperature (°C)	: 6°C
Stack Velocity (m/sec.)	: 9.83
Quantity of Emission (Nm ³ /hrs.)	: 121.254

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	48	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	18	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	38	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.022	IS 13270 : 2019	≤3.5

Meh
Manoranjan
 Analyzed by:
 Notes:



Manick
Gaja Nand Mallick
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Sample Identification No.	:	S231223 03
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	18.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	D.G.Set-125KVA
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	Near Cement Store (125 KVA)
Sample Collected By	:	Mr. Deepak Kumar Jha & Mr. Kaptan Singh
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	:	40 cm
Fuel Used	:	HSD
Pollution Control Device	:	Nil
Sampling Duration	:	1 Hr.
Stack Temperature (°C)	:	124°C
Ambient Temperature (°C)	:	6°C
Stack Velocity (m/sec.)	:	10.19
Quantity of Emission (Nm ³ /hrs.)	:	56.11

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	52	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	22	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	44	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.062	IS 13270 : 2019	≤3.5

Meh
Manoranjan
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 Notes:



Manick
Gaja Nand Mallick
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TC-6440

Sample Identification No.	: S231223 04
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 20.12.2023
Date of Receipt	: 23.12.2023
Sample Description	: D.G.Stack 500 KVA
Sample Condition	: Ok
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Near Dam Site Batching Plant (500 KVA)
Sample Collected By	: Mr. Deepak Kumar Jha & Mr. Kaptan Singh
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 D.G. Set
Normal Operating Schedule	: 1 Hr.
Location of the Sampling Point	: Port hole of Stack
Dia of the Stack	: 60 cm
Fuel Used	: HSD
Pollution Control Device	: Nil
Sampling Duration	: 1 Hr.
Stack Temperature (°C)	: 134°C
Ambient Temperature (°C)	: 9°C
Stack Velocity (m/sec.)	: 10.44
Quantity of Emission (Nm ³ /hrs.)	: 126.21

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Results	Protocol	Permissible Limit as per CPCB Standards
1.	PM	mg/Nm ³	46	IS 11255(Part-1): 2019	≤0.2
2.	SO ₂	mg/Nm ³	28	IS 11255(Part-2): 2019	-
3.	NO _x	mg/Nm ³	45	IS 11255(Part-7): 2017	≤4.0
4.	CO	%	0.26	IS 13270 : 2019	≤3.5

MSE
 Manoranjan
 Analyzed by:
 Notes:



Mallick
 Gaja Nand Mallick
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Sample Identification No.	:	W231223 01
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	R.O. Water (Inlet) Dam Site
Sample Collected By	:	Mr. Deepak Kumar Jha
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	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025 (Part-4):2021
4.	Temperature	°C	5	-----	-----	IS 3025 (Part-19):2017
5.	Turbidity	NTU	1.2	1	5	IS 3025 (Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-7&8):2017
7.	Conductivity	µmhos/cm	316	-----	-----	IS 3025 (Part-14):2019
8.	Total Dissolved Solids	mg/l	206	500	2000	IS 3025 (Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	82	200	600	IS 3025 (Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	138	200	600	IS 3025 (Part-21):2019
11.	Calcium as Ca	mg/l	46.4	75	200	IS 3025 (Part-40):2019
12.	Magnesium as Mg	mg/l	5.34	30	100	IS 3025 (Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025 (Part-2):2019
14.	Chloride as Cl	mg/l	22	250	1000	IS 3025 (Part-32):2019
15.	Nitrate as NO ₃	mg/l	8.0	45	No Relaxation	IS 3025 (Part-34):2019
16.	Sulphate as SO ₄	mg/l	38	200	400	IS 3025 (Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025 (Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025 (Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025 (Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025 (Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025 (Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025 (Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025 (Part-2):2019

25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025 (Part-2):2019
26.	Barium as Ba	mg/l	0.036	0.7	No Relaxation	IS 3025 (Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025 (Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025 (Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025 (Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025 (Part-2):2019
31.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025 (Part-2):2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025 (Part-2):2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025 (Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025 (Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Mallick
Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification No.	:	W231223 02
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	Mr. Deepak Kumar Jha
Sample Collected By	:	R.O. Water (Outlet) Dam Site
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	-	7.12	6.5-8.5	No Relaxation	IS 3025 (Part-11):2022
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):2018
3.	Colour	Hazen Units	<5	5	15	IS 3025 (Part-4):2021
4.	Temperature	°C	4	-----	-----	IS 3025 (Part-19):2017
5.	Turbidity	NTU	1.0	1	5	IS 3025 (Part-10):2017
6.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-7&8):2017
7.	Conductivity	µmhos/cm	175	-----	-----	IS 3025 (Part-14):2019
8.	Total Dissolved Solids	mg/l	114	500	2000	IS 3025 (Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	40	200	600	IS 3025 (Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	72	200	600	IS 3025 (Part-21):2019
11.	Calcium as Ca	mg/l	44	75	200	IS 3025 (Part-40):2019
12.	Magnesium as Mg	mg/l	28	30	100	IS 3025 (Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025 (Part-2):2019
14.	Chloride as Cl	mg/l	18	250	1000	IS 3025 (Part-32):2019
15.	Nitrate as NO ₃	mg/l	6.2	45	No Relaxation	IS 3025 (Part-34):2019
16.	Sulphate as SO ₄	mg/l	24	200	400	IS 3025 (Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	0.05	No Relaxation	IS 3025 (Part-29):2019
18.	Fluoride as F	mg/l	ND#	<1.0	1.5	IS 3025 (Part-60):2019
19.	Free Residual Chlorine	mg/l	ND#	0.2	1	IS 3025 (Part-26):2021
20.	Ammonia as N	mg/l	ND#	0.5	No Relaxation	IS 3025 (Part-34):2019
21.	Anionic Detergents as MBAS	mg/l	ND#	0.2	1.0	Annexure K of IS:13428, 2018
22.	Iron as Fe	mg/l	<0.02	0.3	No Relaxation	IS 3025 (Part-2):2019
23.	Phenolic Compound	mg/l	<0.001	0.001	0.002	IS 3025 (Part-43):2019
24.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025 (Part-2):2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025 (Part-2):2019
26.	Barium as Ba	mg/l	0.032	0.7	No Relaxation	IS 3025 (Part-2):2019

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025 (Part-2):2019
28.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025 (Part-2):2019
29.	Mercury as Hg	mg/l	<0.0005	0.001	No Relaxation	IS 3025 (Part-48):2019
30.	Cadmium as Cd	mg/l	<0.002	0.003	No Relaxation	IS 3025 (Part-2):2019
31.	Total Arsenic as As	mg/l	0.004	0.01	0.05	IS 3025 (Part-2):2019
32.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	IS 3025 (Part-2):2019
33.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	IS 3025 (Part-2):2019
34.	Total Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	IS 3025 (Part-2):2019
35.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
36.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#ND- Not Detected

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Amick
Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	: W231223 03
Name & Address of the Customer	: Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	: 21.12.2023
Date of Receipt	: 23.12.2023
Sample Description	: Surface Water (Tidong River)
Sample Condition	: Ok
Start Date of Analysis	: 23.12.2023
End Date of Analysis	: 29.12.2023
Date of Reporting	: 29.12.2023
Sampling Location	: Tidong River Upstream Near Dam Site
Sample Collected By	: Mr. Deepak Kumar Jha
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	-	7.64	6.5-8.5	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4):2021
4.	Temperature	°C	2	----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.2	----	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	360	----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	234	----	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	76	----	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	162	----	IS 3025(Part-21):2019
11.	Calcium as CaCO ₃	mg/l	112	----	IS 3025(Part-40):2019
12.	Magnesium as CaCO ₃	mg/l	50	----	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.01	----	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	52	----	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	6.2	----	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	42	----	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60):2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34):2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428,2018
21.	Iron as Fe	mg/l	<0.02	----	IS 3025(Part-2):2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43):2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2):2019
24.	Aluminium as Al	mg/l	0.006	----	IS 3025(Part-2):2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.028	----	IS 3025(Part-2):2019
27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2):2019

28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2):2019
29.	Total Arsenic as As	mg/l	<0.005	----	IS 3025(Part-2):2019
30.	Lead as Pb	mg/l	<0.005	----	IS 3025(Part-2):2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2):2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2):2019
33.	Dissolved Oxygen	mg/l	7.2	≥4mg/l	IS 3025(Part-38):2019
34.	BOD	mg/l	5.4	----	IS 3025(Part-44):2019
35.	COD	mg/l	46	----	IS 3025(Part-58):2017
36.	Total Coliform	MPN/100ml	940	----	IS 1622:1981
37.	Faecal Coliform	MPN/100ml	630	----	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	

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Seal of Lab:

Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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TC-6440

Sample Identification No.	:	W231223 04
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Surface Water (Tidong River)
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	Tidong River Down Stream Near Power House
Sample Collected By	:	Mr. Deepak Kumar Jha
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	-	7.46	6.5-8.5	IS 3025(Part-11):2022
2.	Odour	-	Agreeable	----	IS 3025(Part-5):2018
3.	Colour	Hazen Units	<5	----	IS 3025(Part-4):2021
4.	Temperature	°C	3	----	IS 3025(Part-19):2017
5.	Turbidity	NTU	1.8	----	IS 3025(Part-10):2017
6.	Taste	-	Agreeable	----	IS 3025(Part-7&8):2017
7.	Conductivity	µmhos/cm	336	----	IS 3025(Part-14):2019
8.	Total Dissolved Solids	mg/l	219	----	IS 3025(Part-16):2017
9.	Alkalinity as CaCO ₃	mg/l	86	----	IS 3025(Part-23):2019
10.	Total Hardness as CaCO ₃	mg/l	136	----	IS 3025(Part-21):2019
11.	Calcium as CaCO ₃	mg/l	94	----	IS 3025(Part-40):2019
12.	Magnesium as CaCO ₃	mg/l	42	----	IS 3025(Part-46):2019
13.	Manganese as Mn	mg/l	<0.02	----	IS 3025(Part-2):2019
14.	Chloride as Cl	mg/l	44	----	IS 3025(Part-32):2019
15.	Nitrate as NO ₃	mg/l	4.6	----	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	34	----	IS 3025(Part-24):2019
17.	Sulphide as H ₂ S	mg/l	ND#	----	IS 3025(Part-29):2019
18.	Fluoride as F	mg/l	ND#	----	IS 3025(Part-60):2019
19.	Total Ammonia as N	mg/l	ND#	----	IS 3025(Part-34):2019
20.	Anionic Detergents as MBAS	mg/l	ND#	----	Annexure K of IS:13428,2018
21.	Iron as Fe	mg/l	0.076	----	IS 3025(Part-2):2019
22.	Phenolic Compound	mg/l	ND#	----	IS 3025(Part-43):2019
23.	Copper as Cu	mg/l	<0.005	----	IS 3025(Part-2):2019
24.	Aluminium as Al	mg/l	0.14	----	IS 3025(Part-2):2019
25.	Boron as B	mg/l	<0.1	----	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	0.038	----	IS 3025(Part-2):2019

27.	Zinc as Zn	mg/l	<0.02	----	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	----	IS 3025(Part-2):2019
29.	Total Arsenic as As	mg/l	<0.005	----	IS 3025(Part-2):2019
30.	Lead as Pb	mg/l	<0.005	----	IS 3025(Part-2):2019
31.	Nickel as Ni	mg/l	<0.005	----	IS 3025(Part-2):2019
32.	Total Chromium as Cr	mg/l	<0.005	----	IS 3025(Part-2):2019
33.	Dissolved Oxygen	mg/l	6.6	≥4mg/l	IS 3025(Part-38):2019
34.	BOD	mg/l	7.2	----	IS 3025(Part-44):2019
35.	COD	mg/l	60	----	IS 3025(Part-58):2017
36.	Total Coliform	MPN/100ml	1090	----	IS 1622:1981
37.	Faecal Coliform	MPN/100ml	700	----	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	

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Prabhat
Gaja Nand Mallick
Quality Manager:

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Sample Identification No.	:	W231223 05
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	STP Untreated Water Near Dam Site
Sample Collected By	:	Mr. Deepak Kumar Jha
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	Tolerance Limits	Test Method
1.	pH	-	6.84	----	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	480	----	IS 3025(Part-17):2021
3.	COD	mg/l	762	----	IS 3025(Part-58):2017
4.	BOD	mg/l	82	----	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	278	----	IS 3025(Part-39) : 2021

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Seal of Lab.

Gaja Nand
Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W231223 06
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	STP Treated Water Near Dam Site
Sample Collected By	:	Mr. Deepak Kumar Jha
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	Tolerance Limits	Test Method
1.	pH	-	6.94	5.5-9.0	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	82	100	IS 3025(Part-17):2021
3.	COD	mg/l	126	250	IS 3025(Part-58):2017
4.	BOD	mg/l	18	30	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	14	20	IS 3025(Part-39) : 2021

Prabhat
Prabhat Ranjan Dutta
 Analyzed by:



Gaja Nand
Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W231223 07
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	STP Untreated Water Near Power House
Sample Collected By	:	Mr. Deepak Kumar Jha
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	Tolerance Limits	Test Method
1.	pH	-	6.86	----	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	318	----	IS 3025(Part-17):2021
3.	COD	mg/l	530	----	IS 3025(Part-58):2017
4.	BOD	mg/l	78	----	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	174	----	IS 3025(Part-39) : 2021

Prabhat
 Prabhat Ranjan Dutta
 Analyzed by:



Mallick
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification No.	:	W231223 08
Name & Address of the Customer	:	Tidong Power Generation Pvt. Ltd., Vill.- Ruwang, P.O. - Moorang, Distt.- Kinnaur, (Himachal Pradesh)
Date of Sampling	:	21.12.2023
Date of Receipt	:	23.12.2023
Sample Description	:	Waste Water
Sample Condition	:	Ok
Start Date of Analysis	:	23.12.2023
End Date of Analysis	:	29.12.2023
Date of Reporting	:	29.12.2023
Sampling Location	:	STP Treated Water Near Power House
Sample Collected By	:	Mr. Deepak Kumar Jha
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	Tolerance Limits	Test Method
1.	pH	-	7.08	5.5-9.0	IS 3025(Part-11):2022
2.	Total Suspended Solids	mg/l	62	100	IS 3025(Part-17):2021
3.	COD	mg/l	124	250	IS 3025(Part-58):2017
4.	BOD	mg/l	20	30	IS 3025(Part-44):2019
5.	Oil & Grease	mg/l	16	20	IS 3025(Part-39) : 2021

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Seal of Lab.

Gaja Nand
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	:	18.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Site Office
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	52.40	39.70	39.70	59.60	51.73	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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 Manoranjan
 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:




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TC-6440

Location	Near Site Office			
Date	Day/ Hours	Lmin	Leq	Lmax
18.12.2023	06:00AM-07:00AM	53.20	55.78	59.30
	07:00AM-08:00AM	53.20	56.27	58.80
	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	43.87	45.70
	11:00PM-12:00AM	39.70	41.97	45.20
	12:00AM-01:00AM	39.90	42.70	47.00
	01:00AM-02:00AM	40.60	42.73	44.50
02:00AM-03:00AM	39.70	42.31	44.60	
03:00AM-04:00AM	39.70	43.37	46.80	
04:00AM-05:00AM	39.70	40.67	42.60	
05:00AM-06:00AM	39.70	41.89	45.80	
	Average	39.70	51.73	59.60


Manoranjan
Analyzed by:



Seal of Lab:


Gaja Nand Mallick
Quality Manager:

****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	:	19.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Store Room
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	52.02	43.00	42.40	56.90	51.47	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

MSK
 Manoranjan
 Analyzed by:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:



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TC-6440

Location	Near Store Room			
Date	Day/ Hours	Lmin	Leq	Lmax
19.12.2023	06:00AM-07:00AM	52.40	57.62	58.80
	07:00AM-08:00AM	53.40	57.73	58.90
	08:00AM-09:00AM	52.30	57.47	58.80
	09:00AM-10:00AM	52.70	57.05	58.60
	10:00AM-11:00AM	52.30	55.15	58.30
	11:00AM-12:00PM	52.60	56.04	58.60
	12:00PM-01:00PM	51.80	54.28	56.40
	01:00PM-02:00PM	52.10	53.47	56.10
	02:00PM-03:00PM	51.60	54.93	57.60
	03:00PM-04:00PM	52.00	53.26	54.60
	04:00PM-05:00PM	51.60	57.14	58.40
	05:00PM-06:00PM	52.80	54.84	56.50
	06:00PM-07:00PM	51.60	54.30	56.40
	07:00PM-08:00PM	52.20	54.23	56.20
	08:00PM-09:00PM	50.60	53.58	55.40
	09:00PM-10:00PM	51.60	53.44	54.60
	10:00PM-11:00PM	42.80	43.62	45.30
	11:00PM-12:00AM	43.00	45.16	49.00
	12:00AM-01:00AM	42.80	43.90	45.60
	01:00AM-02:00AM	42.40	43.46	44.20
02:00AM-03:00AM	43.20	43.93	45.60	
03:00AM-04:00AM	43.00	43.58	44.60	
04:00AM-05:00AM	42.40	43.39	44.20	
05:00AM-06:00AM	42.80	43.80	44.80	
	Average	42.40	51.47	58.90



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 Manoranjan
 Analyzed by:



Seal of Lab:

Gaja
 Gaja Nand Mallick
 Quality Manager:

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	:	20.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-I
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	54.82	40.10	36.20	56.90	48.21	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


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:



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TC-6440

Location	ADIT-I			
Date	Day/ Hours	Lmin	Leg	Lmax
20.12.2023	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	54.60	56.30
	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	36.20	40.54	43.20	
05:00AM-06:00AM	39.50	41.49	43.80	
	Average	36.20	48.21	56.90

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 Manoranjan
 Analyzed by:



Mallick
 Gaja Nand Mallick
 Quality Manager:

End of Report

Test Report No.: N231223C -04.



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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	:	21.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	ADIT-II
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.08	38.79	37.30	58.20	47.53	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


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:



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TC-6440

Location	ADIT-II			
Date	Day/ Hours	Lmin	Leq	Lmax
21.12.2023	06:00AM-07:00AM	43.10	49.93	47.20
	07:00AM-08:00AM	44.50	44.98	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	56.07	58.20
	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	43.10	46.31	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	37.30	38.93	40.50
02:00AM-03:00AM	37.50	38.77	40.40	
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	37.30	47.53	58.20

M. S. J.
 Manoranjan
 Analyzed by:



****End of Report****

G. N. M.
 Gaja Nand Mallick
 Quality Manager:

Test Report No.: N231223C -05.



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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	:	22.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Dam Site Near Batching Plant
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 9989 : 2020

Monitoring Report

Sl. No.	Noise Level dB(A)					Category of Area
	Ld	Ln	Lmin	Lmax	Leq	
1.	53.20	41.42	41.20	58.60	51.48	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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Quality Manager:



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TC-6440

Location	Dam Site Near Batching Plant			
Date	Day/ Hours	Lmin	Leq	Lmax
22.12.2023	06:00AM-07:00AM	53.20	54.93	56.20
	07:00AM-08:00AM	53.20	55.05	56.32
	08:00AM-09:00AM	53.80	54.72	55.30
	09:00AM-10:00AM	53.60	54.45	55.80
	10:00AM-11:00AM	53.20	54.30	54.80
	11:00AM-12:00PM	53.40	54.59	55.40
	12:00PM-01:00PM	53.80	56.10	58.60
	01:00PM-02:00PM	53.40	54.73	56.40
	02:00PM-03:00PM	53.80	55.04	56.80
	03:00PM-04:00PM	53.20	55.25	57.20
	04:00PM-05:00PM	53.50	54.89	56.40
	05:00PM-06:00PM	53.80	54.65	55.40
	06:00PM-07:00PM	53.50	54.41	54.90
	07:00PM-08:00PM	54.10	54.71	56.40
	08:00PM-09:00PM	53.60	55.15	56.00
	09:00PM-10:00PM	53.50	56.03	58.60
	10:00PM-11:00PM	44.20	47.63	49.20
	11:00PM-12:00AM	44.20	46.06	47.60
	12:00AM-01:00AM	42.40	43.46	44.50
	01:00AM-02:00AM	41.40	42.75	43.80
02:00AM-03:00AM	41.20	43.24	44.80	
03:00AM-04:00AM	41.40	43.21	44.60	
04:00AM-05:00AM	41.20	44.15	45.70	
05:00AM-06:00AM	43.60	46.04	47.80	
	Average	41.20	51.48	58.60

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****End of Report****

Gajamalik
 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	:	18.12.2023
Date of Reporting	:	23.12.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G. (KVA)	:	320 KVA
Sampling Location	:	Near Site Office (320 KVA)
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 4758 : 2017

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	91.63	64.39	23.40
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	75.30	48.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	70.80	--
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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 Quality Manager:

****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	:	18.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G. (KVA)	:	250 KVA
Sampling Location	:	Near Site Office(250 KVA)
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 4758 : 2017

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	88.41	63.88	23.80
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	61.60	45.80	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.60	70.80	--
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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 Gaja Nand Mallick
 Quality Manager:


****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	:	18.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G. (KVA)	:	125 KVA
Sampling Location	:	Near Cement Store (125 KVA)
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 4758 : 2017

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	87.46	65.58	23.70
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	68.50	44.60	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	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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 Quality Manager:


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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	:	20.12.2023
Date of Reporting	:	29.12.2023
Sample Description	:	Source Noise Monitoring
Capacity of D.G. (KVA)	:	500 KVA
Sampling Location	:	Near Dam Site Batching Plant (500 KVA)
Monitored by	:	Mr. Deepak Kumar Jha
Test Method	:	IS 4758 : 2017

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	87.39	65.88	23.00
2.	L_{min}	CPCB Guidelines & Indian Standard:9989	70.50	46.50	--
3.	L_{max}	CPCB Guidelines & Indian Standard:9989	94.20	71.20	--
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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 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

****End of Report****



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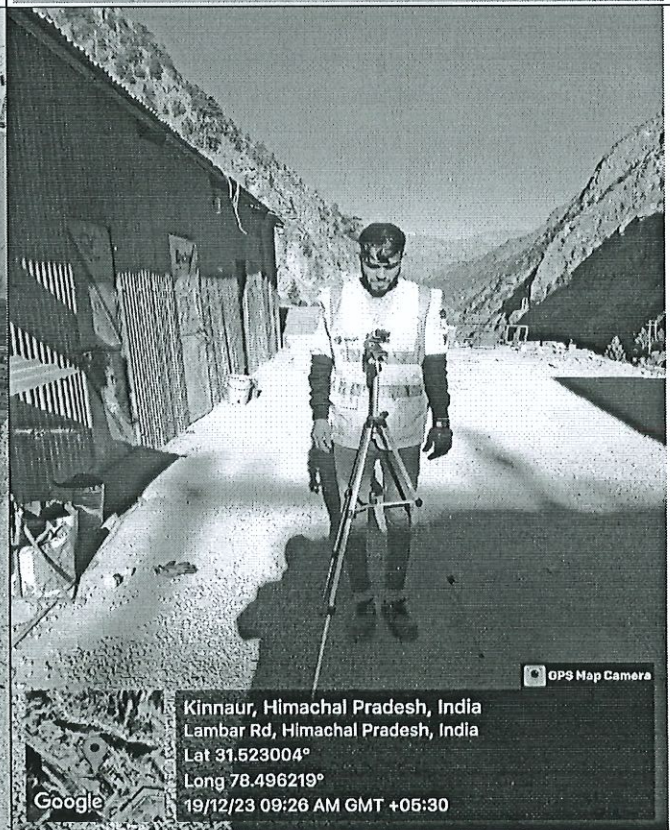
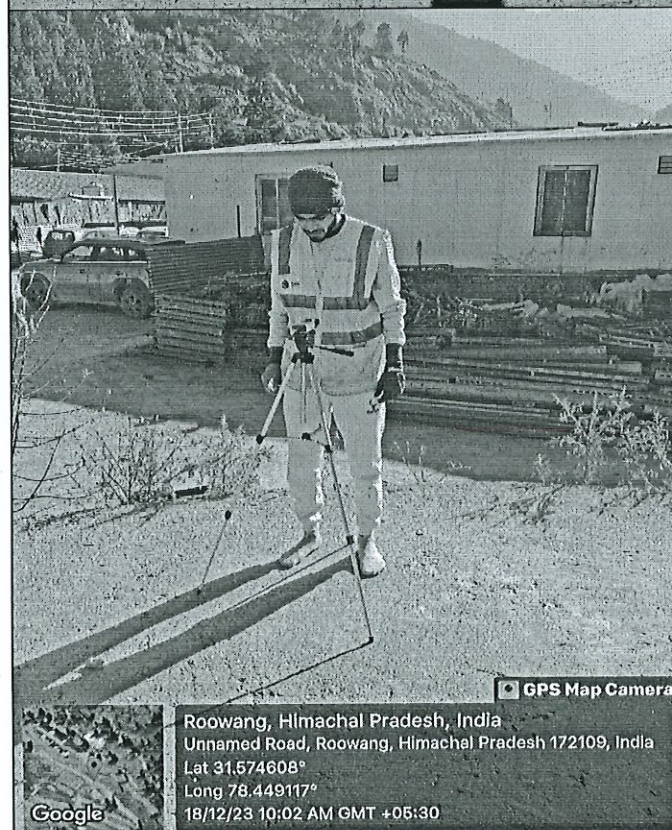
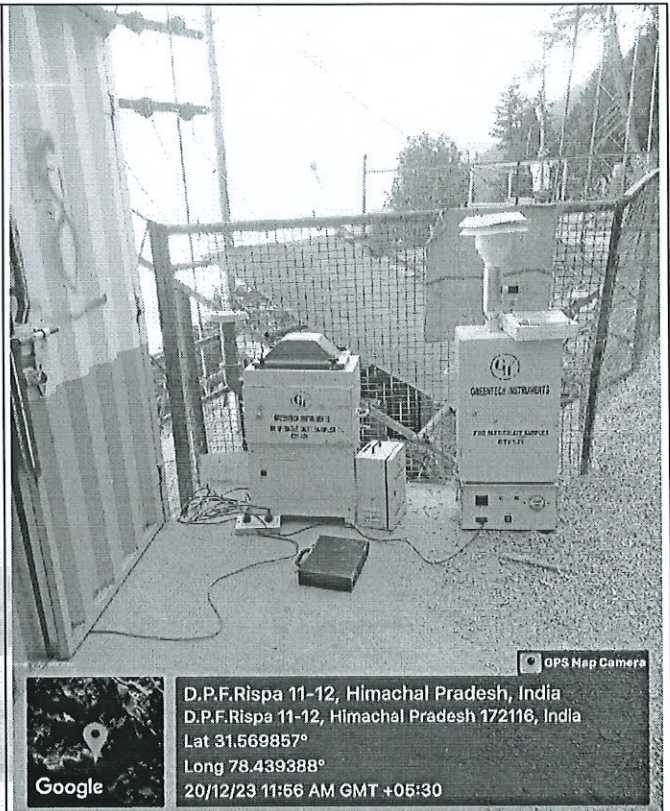
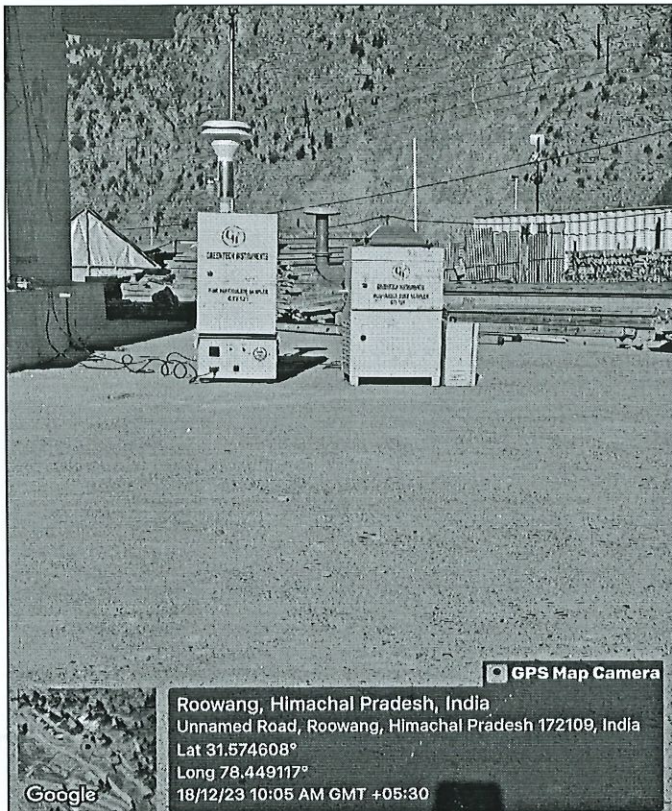
TC-6440

Traffic Survey

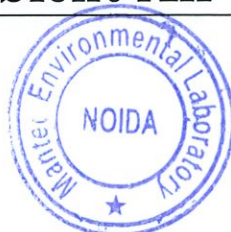
Location	Check Post, Village - Ruwang, Distt.- Kinnaur, Himachal Pradesh				
Date	21.12.2023 to 22.12.2023				
	Type of Vehicles				
Time (Hrs)	Project LCV	Other LCV	Other Trucks/Bus	Project Trucks	2-Wheelers
06:00-07:00	00	00	00	00	00
07:00-08:00	00	00	00	00	00
08:00-09:00	00	00	00	00	00
09:00-10:00	00	01	00	01	00
10:00-11:00	01	00	00	01	00
11:00-12:00	02	02	00	00	00
12:00-13:00	01	00	00	01	00
13:00-14:00	03	02	00	02	00
14:00-15:00	01	02	00	01	00
15:00-16:00	02	01	00	00	00
16:00-17:00	02	01	00	01	01
17:00-18:00	01	02	00	02	00
18:00-19:00	01	01	00	00	00
19:00-20:00	02	02	00	01	00
20:00-21:00	01	00	00	00	00
21:00-22:00	01	00	00	02	00
22:00-23:00	00	01	00	00	00
23:00-24:00	00	00	00	01	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	18	15	00	13	01

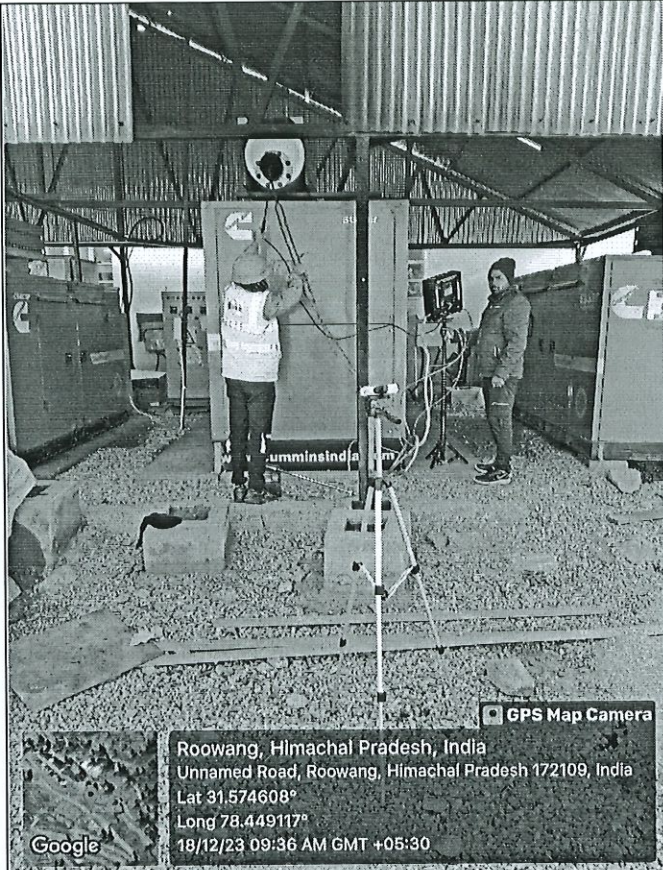


Environmental Monitoring Photographs of TPGPL Project, Kinnaur, H.P.

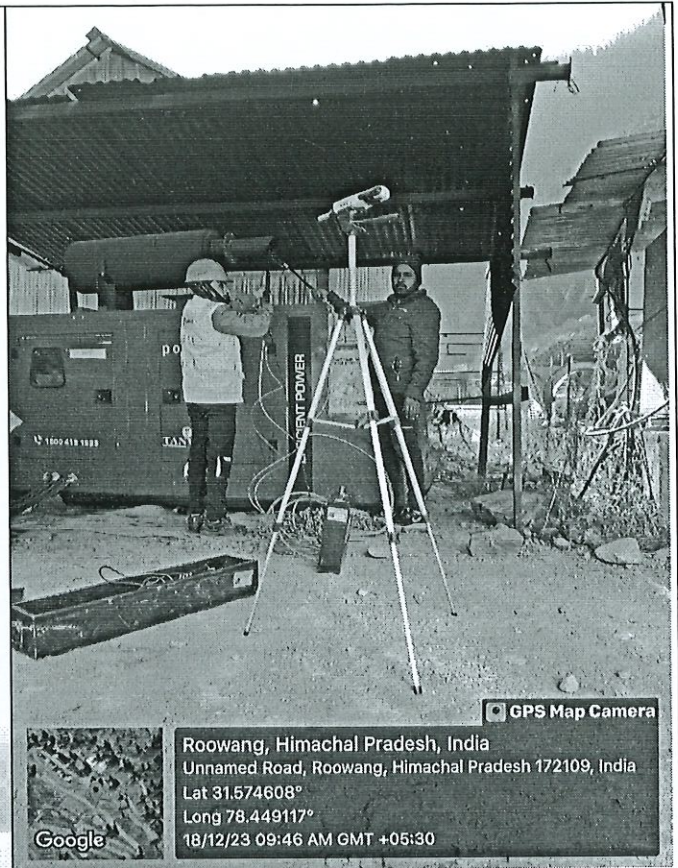


Monitoring of Ambient Air & Ambient Noise

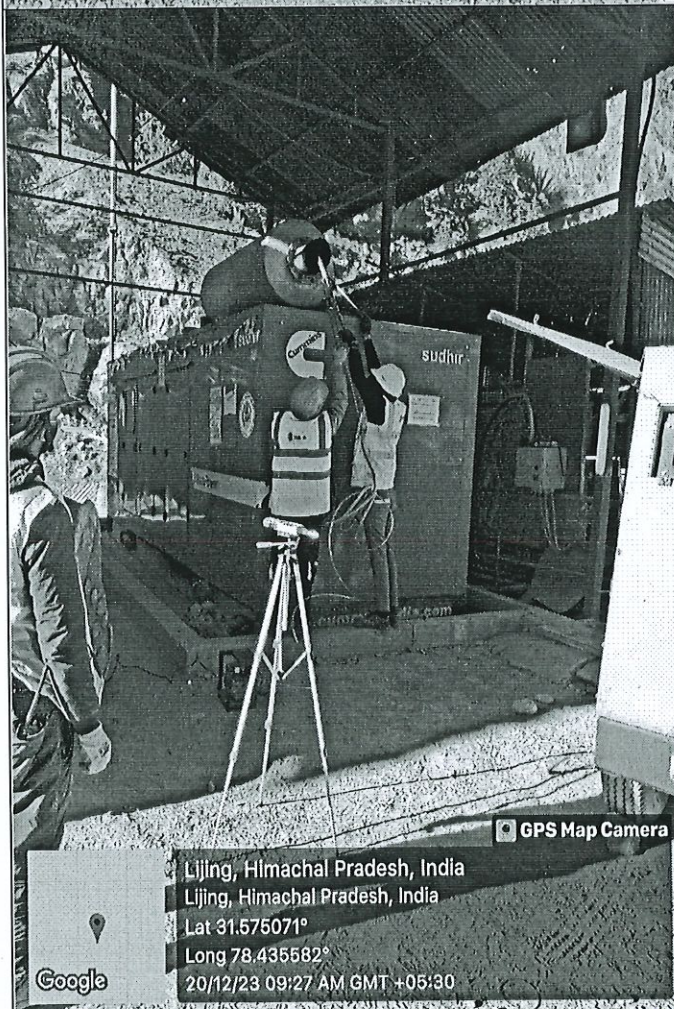




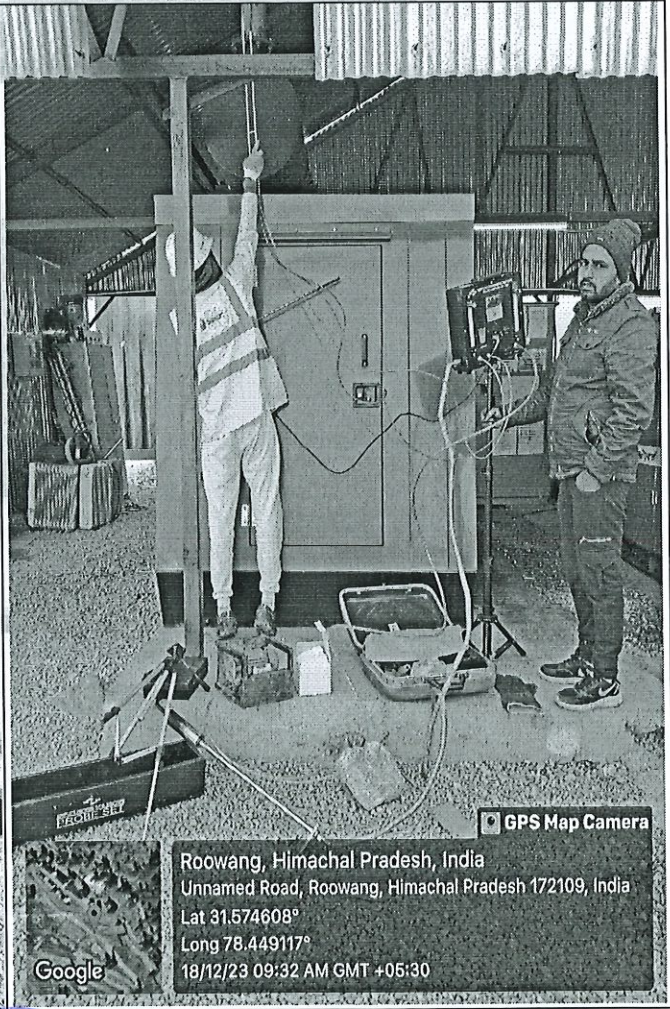
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 Unnamed Road, Roowang, Himachal Pradesh 172109, India
 Lat 31.574608°
 Long 78.449117°
 18/12/23 09:36 AM GMT +05:30



Roowang, Himachal Pradesh, India
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 Lat 31.574608°
 Long 78.449117°
 18/12/23 09:46 AM GMT +05:30

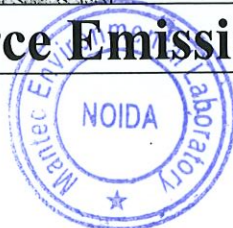


Lijing, Himachal Pradesh, India
 Lijing, Himachal Pradesh, India
 Lat 31.575071°
 Long 78.435582°
 20/12/23 09:27 AM GMT +05:30



Roowang, Himachal Pradesh, India
 Unnamed Road, Roowang, Himachal Pradesh 172109, India
 Lat 31.574608°
 Long 78.449117°
 18/12/23 09:32 AM GMT +05:30

Monitoring of Source Emission & Source Noise

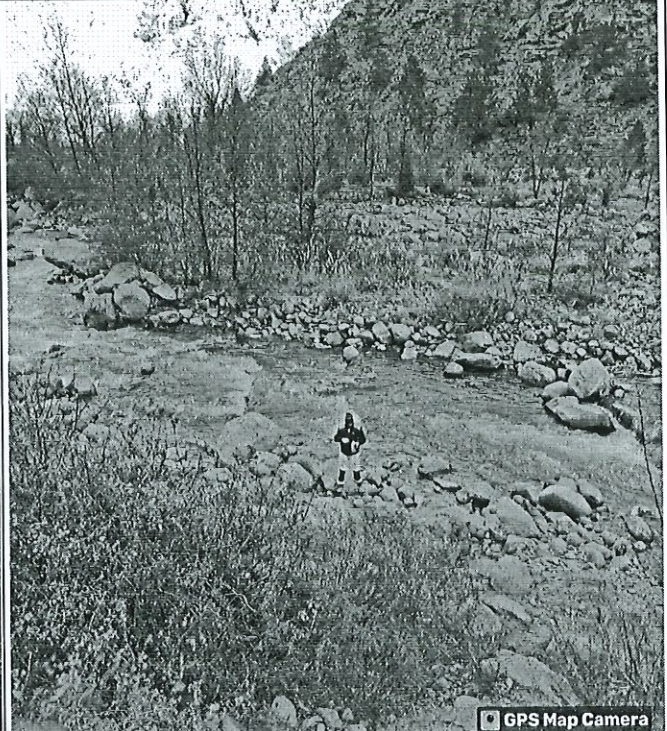




GPS Map Camera



Lijing, Himachal Pradesh, India
Lijing, Himachal Pradesh, India
Lat 31.575071°
Long 78.435582°
21/12/23 10:26 AM GMT +05:30



GPS Map Camera



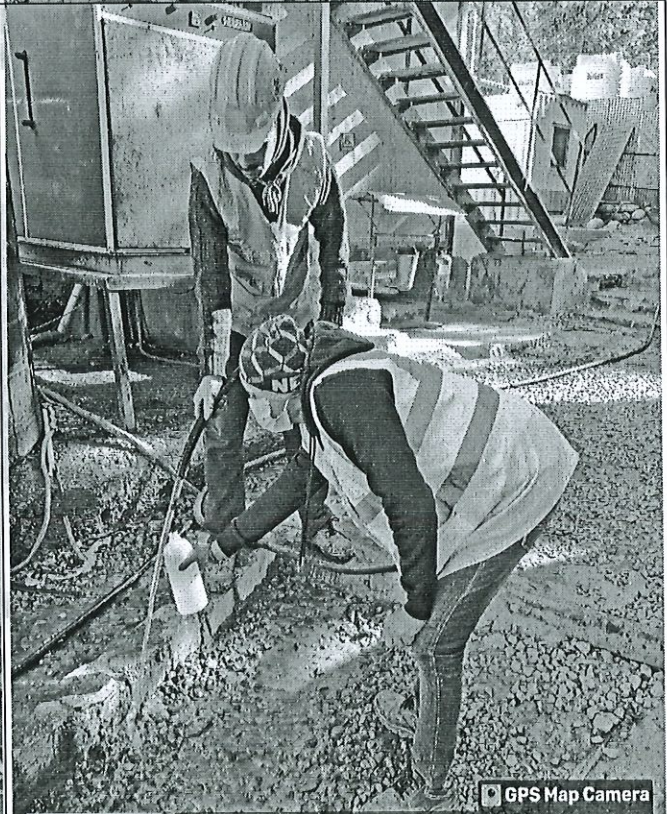
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HCGV+7H8, Khokpa, Himachal Pradesh 172116, India
Lat 31.575889°
Long 78.443397°
21/12/23 01:54 PM GMT +05:30



GPS Map Camera



Lijing, Himachal Pradesh, India
Lijing, Himachal Pradesh, India
Lat 31.575071°
Long 78.435582°
21/12/23 10:07 AM GMT +05:30



GPS Map Camera



Lijing, Himachal Pradesh, India
Lijing, Himachal Pradesh, India
Lat 31.575071°
Long 78.435582°
21/12/23 10:22 AM GMT +05:30

Sampling of Water & Waste Water

