

ENVIROTECH EAST PVT. LIMITED

An ISO 9001:2008, 14001:2004 & OHSAS 18001:2007 Company
Laboratory Recognised by Ministry of Environment & Forests, Govt. of India



Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata - 700 075

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No : 17 - 18 / EEP L / JGA / MAR 18 / 0015

Date : 05 / 03 / 18

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Air Quality
Sampling Location : Doiwala
Sampling Plan & Procedure : IS: 5182 (Part-14) (RA-2005)
Sampling Time : 24 hrs. Except (CO-8 hrs.)

RESULTS

Date	PM10	PM2.5	SOX	NOX	CO
Methodology	IS: 5182 (23)	CPCB	IS 5182 (2)	IS 5182 (6)	CPCB
NAAQS* 2009	100	60	80	80	2
02/10/2017	61.6	18.5	11.3	15.3	0.68
04/10/2017	61.1	18.0	11.1	14.6	0.65
09/10/2017	62.6	19.6	10.1	13.8	0.79
10/10/2017	61.8	20.6	10.4	11.4	0.69
16/10/2017	61.4	22.4	11.9	13.2	0.80
17/10/2017	60.7	23.1	10.1	11.1	0.81
25/10/2017	59.1	19.6	12.5	16.3	0.71
26/10/2017	60.3	20.4	12.9	18.1	0.74
02/11/2017	59.4	21.7	12.8	19.2	0.76
04/11/2017	60.2	14.8	10.7	17.2	0.69
08/11/2017	62.7	17.2	10.2	13.3	0.68
09/11/2017	61.9	15.3	9.4	11.3	0.64
14/11/2017	59.3	19.0	11.1	14.4	0.63
22/11/2017	61.7	16.4	12.9	16.8	0.61
24/11/2017	61.2	18.9	10.7	11.8	0.78
27/11/2017	60.5	20.8	11.3	15.8	0.81
04/12/2017	60.9	19.6	10.0	11.0	0.71
06/12/2017	61.1	20.4	12.4	16.1	0.76
12/12/2017	59.3	21.7	12.2	12.2	0.79
13/12/2017	60.7	14.8	10.7	13.9	0.69
16/12/2017	61.2	17.2	12.5	12.5	0.67
18/12/2017	59.9	15.3	11.2	12.3	0.82
26/12/2017	60.7	19.0	10.5	11.6	0.80
27/12/2017	61.3	16.4	10.7	13.9	0.79

*NAAQS, Schedule - VII, (Rule 3 (3B)), (Part-II-se.-3(i)) 16.11.2009; *- Annual mean of 104 measurement; *- 8 Hrs monitored values shall be complied

BDL- Below Detection Limit; Pb - 0.1 µg/m³, BaP- 0.5 ng/m³, C₆H₆- 2 µg/m³, As- 2 ng/m³, Ni+P- 10 ng/m³, Hg - 0.001 µg/m³, Cd - 0.001 µg/m³, Cr - 0.001 µg/m³

Note:

1. The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
2. This test will not be generated again, either wholly or in part, without written permission of the laboratory.
3. The samples will be disposed off after one month from the date of issue of test report, unless until specified / requested by the customer.



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No : **17** - **18** / **E E P L** / **J G A** / **M A R 18** / **0016**

Date : **05** / **03** / **18**

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Air Quality
Sampling Location : Jolly Grant Village
Sampling Plan & Procedure : IS: 5182 (Part-14) (RA-2005)
Sampling Time : 24 hrs. Except (CO-8 hrs.)

RESULTS

Date	PM10	PM2.5	SOX	NOX	CO
Methodology	IS: 5182 (23)	CPCB	IS 5182 (2)	IS 5182 (6)	CPCB
NAAQS* 2009	100	60	80	80	2
03/10/2017	63.6	30.7	12.8	15.8	0.70
05/10/2017	62.8	31.4	13.1	14.7	0.71
13/10/2017	64.3	27.0	10.8	16.6	0.88
14/10/2017	63.7	26.6	11.1	17.0	0.81
18/10/2017	63.1	26.4	11.0	14.1	0.82
19/10/2017	62.5	23.8	9.9	13.4	0.89
25/10/2017	63.9	23.9	10.0	14.3	0.87
26/10/2017	64.5	24.3	10.1	12.9	0.77
04/11/2017	60.2	23.9	10.0	11.9	0.82
06/11/2017	61.8	21.8	9.1	13.2	0.86
14/11/2017	65.2	27.8	11.6	12.9	0.83
15/11/2017	64.8	27.3	11.4	11.8	0.82
17/11/2017	61.8	26.5	11.0	15.0	0.83
20/11/2017	62.1	27.1	11.2	14.8	0.81
23/11/2017	63.3	25.2	10.1	13.4	0.74
27/11/2017	64.5	26.7	9.8	14.5	0.76
02/12/2017	60.9	21.8	9.1	13.8	0.77
03/12/2017	61.1	27.8	10.0	15.0	0.80
12/12/2017	63.2	27.3	11.4	14.8	0.85
13/12/2017	64.7	26.5	11.0	15.4	0.83
17/12/2017	65.6	26.8	10.9	14.5	0.82
22/12/2017	64.4	25.2	11.3	16.7	0.83
25/12/2017	63.1	25.2	10.5	13.7	0.79
28/12/2017	61.5	26.7	11.1	14.5	0.74

*NAAQS, Schedule - VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009; *- Annual mean of 104 measurement; *- 8 Hrs

End of Report

monitored values shall be complied

BDL- Below Detection Limit; Pb - 0.1 µg/m³, BaP- 0.5 ng/m³, C₆H₆- 2 µg/m³, As- 2 ng/m³, Ni-10 ng/m³, Hg - 0.001 µg/m³, Cd - 0.001 µg/m³, Cr - 0.001 µg/m³

Note:

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No : **17** - **18** / **E E P L** / **J G A** / **M A R 18** / **0017**

Date : **05** / **03** / **18**

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Air Quality
Sampling Location : Rainapur
Sampling Plan & Procedure : IS: 5182 (Part-14) (RA-2005)
Sampling Time : 24 hrs. Except (CO-8 hrs.)

RESULTS

Date	PM10	PM2.5	SOX	NOX	CO
Methodology	IS: 5182 (23)	CPCB	IS 5182 (2)	IS 5182 (6)	CPCB
NAAQS* 2009	100	60	80	80	2
07/10/2017	61.3	34.1	12.7	19.5	0.69
10/10/2017	62.6	32.6	11.1	19.8	0.70
12/10/2017	64.1	33.1	10.4	18.6	0.72
14/10/2017	63.5	33.0	11.7	18.3	0.74
16/10/2017	61.8	33.5	10.3	17.2	0.78
18/10/2017	62.0	34.2	12.8	20.5	0.77
21/10/2017	63.8	31.5	11.5	17.9	0.76
23/10/2017	62.9	33.2	10.9	17.7	0.75
01/11/2017	61.6	34.7	11.5	19.4	0.77
04/11/2017	62.8	32.2	10.1	17.1	0.76
08/11/2017	64.8	33.6	10.8	20.7	0.79
09/11/2017	65.1	31.8	11.4	19.5	0.77
16/11/2017	61.2	35.5	10.1	18.5	0.75
21/11/2017	63.3	35.7	12.7	19.5	0.68
25/11/2017	65.8	33.8	11.1	17.1	0.71
29/11/2017	66.2	32.6	10.5	18.3	0.76
04/12/2017	63.4	33.6	11.1	19.6	0.72
08/12/2017	62.9	31.8	10.3	17.2	0.68
11/12/2017	65.6	35.5	12.8	20.6	0.69
12/12/2017	66.8	34.7	11.5	18.8	0.87
15/12/2017	64.2	33.8	12.6	19.8	0.85
18/12/2017	65.6	32.6	11.2	18.2	0.82
26/12/2017	62.8	33.4	10.4	17.5	0.80
30/12/2017	63.9	34.4	10.7	18.2	0.79

*NAAQS, Schedule - VII, [Rule 3 (38)], [Part-II-se.-3(i)] 16.11.2009; * - Annual mean of 104 measurement; * - 8 Hrs
monitored values shall be complied

BDL- Below Detection Limit; Pb - 0.1 µg/m³, BaP- 0.5 ng/m³, C₆H₆- 2 µg/m³, As- 2 ng/m³, Ni-10 ng/m³, Hg - 0.001 µg/m³, Cd - 0.001 µg/m³, Cr - 0.001 µg/m³

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No : 17 - 18 / E E P L / J G A / M A R 18 / 0018

Date : 05 / 03 / 18

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Air Quality
Sampling Location : Ranipokhri
Sampling Plan & Procedure : IS: 5182 (Part-14) (RA-2005)
Sampling Time : 24 hrs. Except (CO-8 hrs.)

RESULTS

Date	PM10	PM2.5	SOX	NOX	CO
Methodology	IS: 5182 (23)	CPCB	IS 5182 (2)	IS 5182 (6)	CPCB
NAAQS* 2009	100	60	80	80	2
01/10/2017	58.2	33.5	14.5	18.3	0.76
04/10/2017	59.1	32.8	15.3	17.5	0.74
07/10/2017	56.3	32.3	17.7	16.7	0.71
09/10/2017	57.7	33.5	15.9	15.9	0.70
16/10/2017	60.5	35.8	14.2	17.1	0.71
19/10/2017	59.8	34.1	13.3	16.2	0.72
22/10/2017	57.5	35.9	15.5	20.0	0.84
24/10/2017	59.8	36.2	14.2	19.1	0.86
02/11/2017	60.2	33.9	16.9	18.0	0.74
04/11/2017	61.5	34.1	15.0	17.2	0.78
12/11/2017	58.8	36.3	17.3	18.4	0.82
13/11/2017	57.0	35.5	16.6	16.6	0.84
15/11/2017	56.2	34.6	15.9	17.8	0.84
26/11/2017	58.4	33.7	16.1	19.1	0.86
28/11/2017	59.7	35.9	15.8	20.3	0.74
30/11/2017	61.9	36.1	14.9	19.5	0.78
02/12/2017	60.1	36.2	15.3	18.6	0.82
03/12/2017	61.3	35.8	14.7	19.7	0.84
10/12/2017	56.7	31.3	16.5	18.6	0.86
11/12/2017	57.9	33.5	15.7	17.8	0.87
13/12/2017	60.7	34.9	14.1	19.9	0.88
14/11/2017	61.1	32.6	13.8	20.7	0.85
20/12/2017	60.7	34.1	15.5	19.5	0.73
23/12/2017	59.5	36.9	16.9	17.8	0.75

*NAAQS, Schedule - VI, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009; *- Annual mean of T04 measurement; *- 8 Hrs

End of Report

monitored values shall be complied

BDL- Below Detection Limit; Pb - 0.1 µg/m³, BaP - 0.5 ng/m³, C₆H₆ - 2 µg/m³, As - 2 ng/m³, Ni - 10 ng/m³, Hg - 0.001 µg/m³, Cd - 0.001 µg/m³, Cr - 0.001 µg/m³

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No : 17 - 18 / E E P L / J G A / M A R 18 / 0019

Date : 05 / 03 / 18

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Air Quality
Sampling Location : Thano
Sampling Plan & Procedure : IS: 5182 (Part-14) (RA-2005)
Sampling Time : 24 hrs. Except (CO-8 hrs.)

RESULTS

Date	PM10	PM2.5	SOX	NOX	CO
Methodology	IS: 5182 (23)	CPCB	IS 5182 (2)	IS 5182 (6)	CPCB
NAAQS* 2009	100	60	80	80	2
04/10/2017	66.7	36.4	14.4	15.8	0.87
05/10/2017	68.2	35.5	15.1	16.2	0.89
10/07/2017	65.5	33.8	13.6	17.2	0.82
12/10/2017	64.9	32.5	12.6	18.3	0.84
17/10/2017	62.6	35.1	16.1	20.9	0.86
19/10/2017	64.1	36.7	17.9	21.8	0.83
21/10/2017	67.3	32.2	14.5	16.4	0.87
22/10/2017	69.6	31.3	15.7	17.8	0.86
03/11/2017	70.8	33.8	13.5	16.1	0.82
06/11/2017	69.5	31.7	14.1	15.7	0.85
10/11/2017	68.3	32.2	13.2	15.4	0.82
12/11/2017	67.6	34.5	15.0	17.5	0.87
17/11/2017	69.5	35.6	16.4	19.3	0.91
19/11/2017	70.8	36.4	17.3	20.6	0.93
22/11/2017	69.9	37.6	15.5	18.1	0.93
25/11/2017	67.3	36.2	16.1	19.2	0.90
03/12/2017	66.8	33.7	15.9	17.8	0.87
06/12/2017	68.4	35.4	16.1	18.3	0.88
07/12/2017	69.7	36.6	17.6	21.1	0.83
10/12/2017	67.1	37.7	16.5	19.8	0.85
14/12/2017	68.3	34.1	16.8	17.6	0.87
17/12/2017	69.9	35.2	17.7	18.4	0.89
24/12/2017	66.7	33.7	13.2	15.8	0.86
27/12/2017	65.5	34.2	14.1	16.6	0.89

*NAAQS, Schedule - VI, [Rule 3 (38)], [Part-II-se.-3(i)] 16.11.2009; *- Annual mean of 104 measurement; *- 8 Hrs monitored values shall be complied

End of Report

BDL- Below Detection Limit; Pb - 0.1 µg/m³, BaP- 0.5 ng/m³, C₆H₆- 2 µg/m³, As- 2 ng/m³, Ni+Pb ng/m³, Hg - 0.001 µg/m³, Cd - 0.001 µg/m³, Cr - 0.001 µg/m³

Note:

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No : 17 - 18 / E E P L / J G A / M A R 1 8 / 0 0 3 4
Date : 05 / 03 / 18

TEST REPORT

Water Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ground Water
Sampling drawn on : 18.10.17
Sampling drawn by : Subinoy
Sampling Location : Doiwala
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page1-5)
Sample Quantity : 2 lt

RESULTS

S. No.	Parameters	Method	Results	IS 10500: 2012	
				Acceptable Limit	Permissible Limit
1.	Colour, Hazen	APHA 22nd ed 4500H+ B:2012	<5	5	15
2.	Turbidity, NTU	IS : 3025 (Part-10)	<1	1 (Max.)	5 (Max.)
3.	pH (at 25 °C)	IS : 3025 (Part-11)	7.1	6.5-8.5	No relaxation
4.	Conductivity (at 25 °C)	APHA 22st edition, 2510 B:2012	403.68	\$	\$
5.	Total Dissolved Solids, mg/l	IS : 3025 (Part-16)	253	500	2000
6.	Total Alkalinity, mg/l	IS : 3025 (Part-23)	142.8	200	600
7.	Total Hardness (as CaCO ₃), mg/l	IS : 3025 (Part-21)	185.2	300	600
8.	Calcium (as Ca), mg/l	IS : 3025 (Part-40)	47	75	200
9.	Magnesium (as Mg), mg/l	APHA 22st edition, 3500 Mg B:2012	14	30	100
10.	Sodium, mg/l	APHA 22st edition, 3500 Na B:2012	29	\$	\$
11.	Potassium, mg/l	APHA 22st edition, 3500 K- B:2012	8	\$	\$
12.	Bicarbonate, mg/l	IS : 3025 (Part-23)	142.8	\$	\$
13.	Chlorides (as Cl-), mg/l	IS : 3025 (Part-32)	21	250	1000
14.	Sulphate (as SO ₄), mg/l	IS : 3025 (Part-24)	94.8	200	400
15.	Nitrate (as NO ₃), mg/l	IS : 3025 (Part-34)	6	45	No relaxation
16.	Fluoride as F, mg/l	APHA 22st edition, 4500 F- D:2012	0.2	1	1.5
17.	Phenolic compound as C ₆ H ₅ OH	IS : 3025 (Part-43)	BDL(DL0.001)	0.001	0.002
18.	Cyanide, mg/l	IS : 3025 (Part-27)	BDL(DL0.008)	0.05	No relaxation
19.	Aluminum (as Al), mg/l	IS : 3025 (P-41)	BDL(DL0.01)	0.03	0.2
20.	Arsenic (as As), mg/l	IS : 3025 (Part-37)	BDL(DL0.005)	0.01	0.5
21.	Cadmium (as Cd), mg/l	IS : 3025 (Part-41)	BDL(DL0.005)	0.003	No relaxation
22.	Total Chromium (as Cr), mg/l	IS : 3025 (Part-52)	BDL(DL0.005)	0.05	No relaxation
23.	Iron (as Fe), mg/l	IS:3025 (Part-53), Reaffirmed 2009	0.23	0.3	No relaxation
24.	Copper (as Cu), mg/l	IS : 3025 (Part-42)	BDL(DL0.005)	0.05	1.5
25.	Lead (as Pb), mg/l	IS : 3025 (Part-47)	BDL(DL0.005)	0.01	No relaxation
26.	Manganese (as Mn), mg/l	IS : 3025 (Part-59)	BDL(DL0.005)	0.1	0.3
27.	Mercury, mg/l	IS : 3025 (Part-48)	BDL(DL0.05)	0.001	No relaxation
28.	Zinc, mg/l	IS : 3025 (Part-49)	0.07	5	15

End of Report

Note: Below Detection Limit: DL- Detection Limit

- The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
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No : 17 - 18 / E E P L / J G A / M A R 18 / 0035

Date : 05 / 03 / 18

TEST REPORT

Water Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ground Water
Sampling drawn on : 18.10.17
Sampling drawn by : Subinoy
Sampling Location : Jolly Grant Village
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page1-5)
Sample Quantity : 2 lt

RESULTS

S. No.	Parameters	Method	Results	IS 10500: 2012	
				Acceptable Limit	Permissible Limit
1.	Colour, Hazen	APHA 22nd ed 4500H+ B:2012	<5	5	15
2.	Turbidity, NTU	IS : 3025 (Part-10)	<1	1 (Max.)	5 (Max.)
3.	pH (at 25 °C)	IS : 3025 (Part-11)	7.8	6.5-8.5	No relaxation
4.	Conductivity (at 25 °C)	APHA 22st edition, 2510 B:2012	439.57	\$	\$
5.	Total Dissolved Solids, mg/l	IS : 3025 (Part-16)	287	500	2000
6.	Total Alkalinity, mg/l	IS : 3025 (Part-23)	179.2	200	600
7.	Total Hardness (as CaCO ₃), mg/l	IS : 3025 (Part-21)	235.7	300	600
8.	Calcium (as Ca), mg/l	IS : 3025 (Part-40)	68	75	200
9.	Magnesium (as Mg), mg/l	APHA 22st edition, 3500 Mg B:2012	21	30	100
10.	Sodium, mg/l	APHA 22st edition, 3500 Na B:2012	42	\$	\$
11.	Potassium, mg/l	APHA 22st edition, 3500 K- B:2012	14	\$	\$
12.	Bicarbonate, mg/l	IS : 3025 (Part-23)	179.2	\$	\$
13.	Chlorides (as Cl ⁻), mg/l	IS : 3025 (Part-32)	31	250	1000
14.	Sulphate (as SO ₄), mg/l	IS : 3025 (Part-24)	128	200	400
15.	Nitrate (as NO ₃), mg/l	IS : 3025 (Part-34)	15	45	No relaxation
16.	Fluoride as F, mg/l	APHA 22st edition, 4500 F- D:2012	0.5	1	1.5
17.	Phenolic compound as C ₆ H ₅ OH	IS : 3025 (Part-43)	BDL (DL0.001)	0.001	0.002
18.	Cyanide, mg/l	IS : 3025 (Part-27)	BDL (DL0.008)	0.05	No relaxation
19.	Aluminum (as Al), mg/l	IS : 3025 (P-41)	BDL (DL0.01)	0.03	0.2
20.	Arsenic (as As), mg/l	IS : 3025 (Part-37)	BDL (DL0.005)	0.01	0.5
21.	Cadmium (as Cd), mg/l	IS : 3025 (Part-41)	BDL (DL0.005)	0.003	No relaxation
22.	Total Chromium (as Cr), mg/l	IS : 3025 (Part-52)	BDL (DL0.005)	0.05	No relaxation
23.	Iron (as Fe), mg/l	IS:3025 (Part-53), Reaffirmed 2009	0.34	0.3	No relaxation
24.	Copper (as Cu), mg/l	IS : 3025 (Part-42)	BDL (DL0.005)	0.05	1.5
25.	Lead (as Pb), mg/l	IS : 3025 (Part-47)	BDL (DL0.005)	0.01	No relaxation
26.	Manganese (as Mn), mg/l	IS : 3025 (Part-59)	BDL (DL0.005)	0.1	0.3
27.	Mercury, mg/l	IS : 3025 (Part-48)	BDL (DL0.05)	0.001	No relaxation
28.	Zinc, mg/l	IS : 3025 (Part-49)	0.14	5	15

End of Report

Note: Below Detection Limit: DL- Detection Limit

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Page 1 of 1

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No : 17 - 18 / E E P L / J G A / O C T 13 / 0020

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (11-10-2017 - 12-10-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	49.8	dB (A)
2	Leq (10:00 PM To 6:00 AM)		37.6	dB (A)
3	Leq Min		35.1	dB (A)
4	Leq Max		51.8	dB (A)

All values in dB(A) Leq: Day time: 6 A.M. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

1. The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
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3. The samples will be disposed off after one month from the date of issue of test report, unless until specified / requested by the customer.

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No : 17 - 18 / E E P L / J G A / O C T 13 / 0021

Date : 05 / 03 / 18

TEST REPORT

Ambient Air Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (12-10-2017 - 13-10-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	53.2	dB (A)
2	Leq (10:00 PM To 6:00 AM)		42.7	dB (A)
3	Leq Min		55.0	dB (A)
4	Leq Max		40.3	dB (A)

All values in dB(A) leq; Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / N O V 14 / 0022

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (21-11-2017 - 22-11-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	50.7	dB (A)
2	Leq (10:00 PM To 6:00 AM)		41.2	dB (A)
3	Leq Min		40.4	dB (A)
4	Leq Max		52.9	dB (A)

All values in dB(A) Leq;

Day time: 6 A.m. to 10 P.M. ; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / N O V 14 / 0023

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (22-11-2017 - 23-11-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	54.2	dB (A)
2	Leq (10:00 PM To 6:00 AM)		43.7	dB (A)
3	Leq Min		55.6	dB (A)
4	Leq Max		40.1	dB (A)

All values in dB(A) leq;

Day time: 6 A.m. to 10 P.M. ; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / D E C 1 5 / 0 0 2 4

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (04-12-2017 - 05-12-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	50.2	dB (A)
2	Leq (10:00 PM To 6:00 AM)		41.0	dB (A)
3	Leq Min		37.8	dB (A)
4	Leq Max		51.6	dB (A)

All values in dB(A) Leq; Day time: 6 A.M. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / D E C 1 5 / 0 0 2 5

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (05-12-2017 - 06-12-2017)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	52.7	dB (A)
2	Leq (10:00 PM To 6:00 AM)		43.8	dB (A)
3	Leq Min		54.0	dB (A)
4	Leq Max		41.9	dB (A)

All values in dB(A) leq: Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / J A N 1 6 / 0 0 2 6

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (09-01-2018 - 10-01-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	47.6	dB (A)
2	Leq (10:00 PM To 6:00 AM)		38.5	dB (A)
3	Leq Min		36.7	dB (A)
4	Leq Max		50.2	dB (A)

All values in dB(A)leq: Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / J A N 1 6 / 0 0 2 7

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (10-01-2018 - 11-01-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	54.3	dB (A)
2	Leq (10:00 PM To 6:00 AM)		43.7	dB (A)
3	Leq Min		56.2	dB (A)
4	Leq Max		41.4	dB (A)

All values in dB(A) leq; Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

1. The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
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No : 17 - 18 / E E P L / J G A / F E B 17 / 0028

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (13-02-2018 - 14-02-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	47.4	dB (A)
2	Leq (10:00 PM To 6:00 AM)		36.8	dB (A)
3	Leq Min		35.6	dB (A)
4	Leq Max		49.1	dB (A)

All values in dB(A) leq; Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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2. This test will not be generated again, either wholly or in part, without written permission of the laboratory.
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No : 17 - 18 / EEP L / JGA / FEB 17 / 0029

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (14-02-2018 - 15-02-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	51.8	dB (A)
2	Leq (10:00 PM To 6:00 AM)		43.2	dB (A)
3	Leq Min		54.8	dB (A)
4	Leq Max		41.5	dB (A)

All values in dB(A) leq; Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / M A R 18 / 0030

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Junction Doiwala
Sampling Time : 24 hrs. (01-03-2018 - 02-03-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	50.3	dB (A)
2	Leq (10:00 PM To 6:00 AM)		42.5	dB (A)
3	Leq Min		38.1	dB (A)
4	Leq Max		52.4	dB (A)

All values in dB(A) leq; Day time: 6 A.M. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

1. The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
2. This test will not be generated again, either wholly or in part, without written permission of the laboratory.
3. The samples will be disposed off after one month from the date of issue of test report, unless until specified / requested by the customer.



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No : 17 - 18 / E E P L / J G A / M A R 18 / 0031

Date : 05 / 03 / 18

TEST REPORT

Ambient Noise Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Ambient Noise Quality
Sampling Location : Jolly Grant Village
Sampling Time : 24 hrs. (02-03-2018 - 03-03-2018)
Method of Measurement : SLM- 100 (Envirotech Make)

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1	Leq (6:00 AM To 10:00 PM)	CPCB Method	54.2	dB (A)
2	Leq (10:00 PM To 6:00 AM)		45.7	dB (A)
3	Leq Min		55.8	dB (A)
4	Leq Max		42.6	dB (A)

All values in dB(A) Leq; Day time: 6 A.m. to 10 P.M.; Night time: 10 P.M. to 6 A.M.

End of Report

Note:

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No : 17 - 18 / E E P L / J G A / M A R 18 / 0032

Date : 05 / 03 / 18

TEST REPORT

Soil Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Soil
Sampling drawn on : 18.10.2017
Sampling drawn by : Subinoy
Sampling Location : Doiwala
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page 67)
Sample Quantity : 1 kg

RESULTS

S. No	Parameters	Methods	Results
1	Texture	Department of Agriculture & Co-operation, Govt of India 2011	Sandy Clay Loam
2	Clay (%)	Department of Agriculture & Co-operation, Govt of India 2011	29
3	Silt (%)	Department of Agriculture & Co-operation, Govt of India 2011	15
4	Sand (%)	Department of Agriculture & Co-operation, Govt of India 2011	56
5	Bulk density (g/cm ³)	TM-S/34	1.4
6	Moisture content (%)	Department of Agriculture & Co-operation, Govt of India Page No. 76-77:2011	4.3
8	Infiltration Rate (%)	TM-S/40	1.24
9	pH	IS2720- Part 26, 1987 by pH meter	7.14
10	Conductivity (µmhos /cm)	Department of Agriculture & Co-operation, Govt of India Page No. 81-82:2011	365
11	Organic Carbon (%)	IS2720-(Part-22),1972, Reaffirmed 2001	1.86
12	Available N (kg/ha)	TM-S/17	153.2
13	Available P (kg/ha)	TM-S/11	39.8

Note: BDL- Below Detection Limit; DL- Detection Limit

End of Report

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Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

Enviroftech

Bengal Ambuja Commercial Complex,
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No : 17 - 18 / E E P L / J G A / M A R 18 / 0033

Date : 05 / 03 / 18

TEST REPORT

Soil Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Soil
Sampling drawn on : 18.10.2017
Sampling drawn by : Subinoy
Sampling Location : Jolly Grant Village
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page 67)
Sample Quantity : 1 kg

RESULTS

S. No	Parameters	Methods	Results
1	Texture	Department of Agriculture & Co-operation, Govt of India 2011	Sandy Clay Loam
2	Clay (%)	Department of Agriculture & Co-operation, Govt of India 2011	21
3	Silt (%)	Department of Agriculture & Co-operation, Govt of India 2011	20
4	Sand (%)	Department of Agriculture & Co-operation, Govt of India 2011	59
5	Bulk density (g/cm ³)	TM-S/34	1.2
6	Moisture content (%)	Department of Agriculture & Co-operation, Govt of India Page No. 76-77:2011	4.1
8	Infiltration Rate (%)	TM-S/40	1.26
9	pH	IS2720- Part 26, 1987 by pH meter	7.18
10	Conductivity (µmhos /cm)	Department of Agriculture & Co-operation, Govt of India Page No. 81-82:2011	389
11	Organic Carbon (%)	IS2720-(Part-22),1972, Reaffirmed 2001	1.78
12	Available N (kg/ha)	TM-S/17	164.8
13	Available P (kg/ha)	TM-S/11	43.2

Note: BDL- Below Detection Limit; DL- Detection Limit

End of Report

1. The results given above are related to the tested sample, for various parameters as analysed. The customer asked for the above tests only.
2. This test will not be generated again, either wholly or in part, without written permission of the laboratory.
3. The samples will be disposed off after one month from the date of issue of test report, unless until specified / requested by the customer.



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No : 17 - 18 / E E P L / J G A / M A R 1 8 / 0 0 3 6

Date : 05 / 03 / 18

TEST REPORT

Water Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Surface Water
Sampling drawn on : 18.10.17
Sampling drawn by : Subinoy
Sampling Location : Song River near Bhagtana village
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page 1-5)
Sample Quantity : 2 lt

RESULTS

S. No.	Parameters	Method	Results	CPCB Water Quality Criteria
1.	Colour, Hazen	APHA 22nd ed 4500H+ B:2012	8	\$
2.	Turbidity, NTU	IS : 3025 (Part-10)	7	Class A
3.	pH (at 25 °C)	IS : 3025 (Part-11)	7.7	\$
4.	Conductivity (at 25 °C)	APHA 22st edition, 2510 B:2012	408	\$
5.	Total Dissolved Solids, mg/l	IS : 3025 (Part-16)	243	\$
6.	Total Alkalinity, mg/l	IS : 3025 (Part-23)	153	\$
7.	Total Hardness (as CaCO ₃), mg/l	IS : 3025 (Part-21)	131.7	\$
8.	Calcium (as Ca), mg/l	IS : 3025 (Part-40)	34.1	\$
9.	Magnesium (as Mg), mg/l	APHA 22st edition, 3500 Mg B:2012	13	\$
10.	Sodium, mg/l	APHA 22st edition, 3500 Na B:2012	21	\$
11.	Potassium, mg/l	APHA 22st edition, 3500 K- B:2012	5	\$
12.	Bicarbonate, mg/l	IS : 3025 (Part-23)	153	\$
13.	Chlorides (as Cl-), mg/l	IS : 3025 (Part-32)	19	\$
14.	Sulphate (as SO ₄), mg/l	IS : 3025 (Part-24)	23	\$
15.	Nitrate (as NO ₃), mg/l	IS : 3025 (Part-34)	1.4	\$
16.	Fluoride as F, mg/l	APHA 22st edition, 4500 F- D:2012	0.19	\$
17.	Phenolic compound as C ₆ H ₅ OH	IS : 3025 (Part-43)	BDL (DL0.001)	\$
18.	Cyanide, mg/l	IS : 3025 (Part-27)	BDL (DL0.008)	\$
19.	Dissolved Oxygen, mg/l	APHA 22st edition, 4500 A:2012	6.1	\$
20.	BOD, mg/l	APHA 22st edition, 5210 B:2012	1.6	\$
21.	COD, mg/l	APHA 22st edition, 5220 B:2012	10	\$
22.	Arsenic (as As), mg/l	IS : 3025 (Part-37)	BDL (DL0.005)	\$
23.	Cadmium (as Cd), mg/l	IS : 3025 (Part-41)	BDL (DL0.005)	\$
24.	Total Chromium (as Cr), mg/l	IS : 3025 (Part-52)	BDL (DL0.005)	\$
25.	Iron (as Fe), mg/l	IS:3025 (Part-53), Reaffirmed 2009	0.14	\$
26.	Copper (as Cu), mg/l	IS : 3025 (Part-42)	BDL (DL0.005)	\$
27.	Lead (as Pb), mg/l	IS : 3025 (Part-47)	BDL (DL0.005)	Class B & C
28.	Manganese (as Mn), mg/l	IS : 3025 (Part-59)	BDL (DL0.005)	\$
29.	Mercury, mg/l	IS : 3025 (Part-48)	BDL (DL0.05)	Below-E
30.	Zinc, mg/l	IS : 3025 (Part-49)	0.08	Class B
31.	Total Coliform	IS : 1622 : 1981	397	CPCB Water Quality Criteria

Note: Below Detection Limit: DL- Detection Limit

End of Report

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No : 17 - 18 / E E P L / J G A / M A R 18 / 0037

Date : 05 / 03 / 18

TEST REPORT

Water Quality Analysis

Issued to : Jolly Grant Airport, Dehradun, Uttarakhand 248140

Sample Details

Sample Description : Surface Water
Sampling drawn on : 18.10.17
Sampling drawn by : Subinoy
Sampling Location : Hariyawala Khurd
Sampling Plan & Procedure : As per SOP (Doc No. LIII-SOP/01 page1-5)
Sample Quantity : 2 lt

RESULTS

S. No.	Parameters	Method	Results	CPCB Water Quality Criteria
1.	Colour, Hazen	APHA 22nd ed 4500H+ B:2012	13	\$
2.	Turbidity, NTU	IS : 3025 (Part-10)	11	Class A
3.	pH (at 25 °C)	IS : 3025 (Part-11)	7.9	\$
4.	Conductivity (at 25 °C)	APHA 22st edition, 2510 B:2012	419	\$
5.	Total Dissolved Solids, mg/l	IS : 3025 (Part-16)	251.7	\$
6.	Total Alkalinity, mg/l	IS : 3025 (Part-23)	171.3	\$
7.	Total Hardness (as CaCO ₃), mg/l	IS : 3025 (Part-21)	159.8	\$
8.	Calcium (as Ca), mg/l	IS : 3025 (Part-40)	39	\$
9.	Magnesium (as Mg), mg/l	APHA 22st edition, 3500 Mg B:2012	16.1	\$
10.	Sodium, mg/l	APHA 22st edition, 3500 Na B:2012	25	\$
11.	Potassium, mg/l	APHA 22st edition, 3500 K- B:2012	10	\$
12.	Bicarbonate, mg/l	IS : 3025 (Part-23)	171.3	\$
13.	Chlorides (as Cl ⁻), mg/l	IS : 3025 (Part-32)	29.2	\$
14.	Sulphate (as SO ₄), mg/l	IS : 3025 (Part-24)	38.7	\$
15.	Nitrate (as NO ₃), mg/l	IS : 3025 (Part-34)	2.6	\$
16.	Fluoride as F, mg/l	APHA 22st edition, 4500 F- D:2012	0.79	\$
17.	Phenolic compound as C ₆ H ₅ OH	IS : 3025 (Part-43)	BDL (DL0.001)	\$
18.	Cyanide, mg/l	IS : 3025 (Part-27)	BDL (DL0.008)	\$
19.	Dissolved Oxygen, mg/l	APHA 22st edition, 4500 A:2012	6.1	\$
20.	BOD, mg/l	APHA 22st edition, 5210 B:2012	1.2	\$
21.	COD, mg/l	APHA 22st edition, 5220 B:2012	13.1	\$
22.	Arsenic (as As), mg/l	IS : 3025 (Part-37)	BDL (DL0.005)	\$
23.	Cadmium (as Cd), mg/l	IS : 3025 (Part-41)	BDL (DL0.005)	\$
24.	Total Chromium (as Cr), mg/l	IS : 3025 (Part-52)	BDL (DL0.005)	\$
25.	Iron (as Fe), mg/l	IS:3025 (Part-53), Reaffirmed 2009	0.43	\$
26.	Copper (as Cu), mg/l	IS : 3025 (Part-42)	BDL (DL0.005)	\$
27.	Lead (as Pb), mg/l	IS : 3025 (Part-47)	BDL (DL0.005)	Class B & C
28.	Manganese (as Mn), mg/l	IS : 3025 (Part-59)	BDL (DL0.005)	\$
29.	Mercury, mg/l	IS : 3025 (Part-48)	BDL (DL0.05)	Below-E
30.	Zinc, mg/l	IS : 3025 (Part-49)	BDL (DL0.005)	Class B
31.	Total Coliform	IS : 1622 : 1981	402	CPCB Water Quality Criteria

Note: Below Detection Limit: DL- Detection Limit

End of Report

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