



नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Morang Merchants' Association Complex
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel: +977-21-576887

Date: 15th Baishakh 2083

Ambient Air Composite Analysis Report

Name of the Client	Swastik Rolling Mills (P) Ltd	Sampling Location	Duhabi, Sunsari
Sampled by	NBSK	Date of Monitoring	06-01-2083
Sample code No	SN -33 (A) 2082/83	Date Of completion	15-01-2083

SN	Sample Location	Parameter	Method	Guideline Value (NAAQS 2082)	Result ($\mu\text{g}/\text{m}^3$)
1	Factory Premise	Total Suspended Particles	HVAS & Gravimetric	230 $\mu\text{g}/\text{m}^3$	225.49
		PM 10		120 $\mu\text{g}/\text{m}^3$	96.24
		PM 2.5		40 $\mu\text{g}/\text{m}^3$	13.90
		SO _x	West & Geake	70 $\mu\text{g}/\text{m}^3$	BDL
		NO _x	NA-Arsenite	80 $\mu\text{g}/\text{m}^3$	BDL

Note: NAAQS: National ambient air Quality standard, 2082

*BDL-Below Detection Limit

Remarks: The Observed value for Total Suspended Particles, PM 10, PM 2.5, Sox & Nox were found to be within the guideline value prescribed in NAAQS,2082.

Recommendation: Air quality is currently in the acceptable range but to keep pollutant level within range, preventive measures like installing wind screen, fogging system, plantation & water sprinkling are recommended.

(Analyzed By)

(Checked By)

(Authorized Signature)





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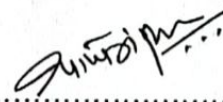
Date: 15th Baishakh 2083

Test Report

Name of the Client	Swastik Rolling Mills (P) Ltd	Sampling Location	Duhabi, Sunsari
Sampled by	NBSK	Date of Monitoring	06-01-2083
Sample code No	SN-32 (N) 2082/83	Time of Monitoring	04:39 PM

SN	Point of Monitoring	Guideline Value	Lmax dBA	Lmin dBA	Leq dBA
1	East Side	Industrial Area 75 dB (A) (Day)	68.9	63.2	66.14
2	West Side		71.4	64.3	67.87
3	North Side		60	55.7	57.31
4	South Side		73	66.1	67.97
5	Center		80.7	78.4	79.66


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(Analyzed By)


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(Checked By)


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(Authorized Signature)





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Morang Merchants' Association Complex
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel : +977-21-576887



Date: 27th Baishakh 2083

Ambient Air Composite Analysis Report

Name of the Client	Pashupati Iron & Steel Pvt. Ltd.	Sampling Location	Sonapur, Duhabi, Sunsari
Sampled by	NBSK	Date of Monitoring	24-01-2083
Sample code No	SN -34 (A) 2082/83	Date Of completion	27-01-2083


SN	Sample Location	Parameter	Method	Guideline Value (NAAQS 2082)	Result ($\mu\text{g}/\text{m}^3$)
1	Factory Premise	Total Suspended Particles	HVAS & Gravimetric	230 $\mu\text{g}/\text{m}^3$	205.76
		PM 10		120 $\mu\text{g}/\text{m}^3$	108.00
		PM 2.5		40 $\mu\text{g}/\text{m}^3$	12.69
		SO _x	West & Geake	70 $\mu\text{g}/\text{m}^3$	BDL
		No _x	NA-Arsenite	80 $\mu\text{g}/\text{m}^3$	BDL

Note: NAAQS: National ambient air Quality standard, 2082

*BDL-Below Detection Limit

Remarks: The Observed value for Total Suspended Particles, PM₁₀, PM_{2.5}, SO_x & No_x were found to be within the guideline value prescribed in NAAQS, 2082.

Recommendation: Air quality is currently in the acceptable range but to keep pollutant level within range, preventive measures like Plantation & water sprinkling are recommended.


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(Analyzed By)


.....
(Checked By)


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(Authorized Signature)



नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Morang Merchandise Association Complex
Pdt. Meghraj Marga (G... Biratnagar-7 Nepal Tel: +977-21-576887




Date: 27th Baishakh 2083

Test Report

Name of the Client	Pashupati Iron & Steel Pvt. Ltd.	Sampling Location	Sonapur, Duhabl, Sunsari
Sampled by	NBSK	Date of Monitoring	24-01-2083
Sample code No	SN -35 (N) 2082/83	Time of Monitoring	3:30 PM

SN	Point of Monitoring	Guideline Value	Lmax dBA	Lmin dBA	Leq dBA
1	East Side	Industrial Area Day Time 75 dB (A)	70.5	60.7	66.49
2	West Side		66.9	64.7	65.33
3	North Side		67.9	66.4	66.95
4	South Side		69.5	57.6	63.48
5	Center		76.6	61.4	68.39


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(Analyzed By)


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Morang Merchants' Association Complex
Pdt. Moghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel : +977-21-576887

Date: 7th Dulsakh 2083

Test Report

Name of the Client	Swadesh Sabun (P) Ltd.	Sampling Location	Duhabi, Sunsari
Sampled by	Client	Date of Collection	22-12-2082
Source of Sample	Final Outlet	Date of Analysis	23-12-2082
Type of Sample	Waste Water	Date of Completion	06-12-2082
Sample code No	SN- 235 (W) 2082/83		

S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	6.71	APHA-4500 H+
2	Temperature	°C	45	25.9	Electrometric
3	Total Suspended solids	mg/L	600	680	APHA-2540 D
4	Total Dissolved Solids		2100	337.2	APHA-2540 C
5	Fluoride as (F)	mg/L	10	<0.05	APHA-2500 D
6	Ammonia as (NH ₃ -N)	mg/L	50	0.5	APHA-4500
7	Chloride	mg/L	1000	18	APHA-2500 B
8	Zinc (Zn)	mg/L	5	0.09	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.05	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	<0.05	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	<0.003	APHA-3111 B
12	Nickel (Ni)	mg/L	3	<0.05	APHA-3111 B
13	Arsenic (As)	mg/L	1	<0.005	APHA-3500 As B
14	Biochemical Oxygen Demand	mg/L	400	325	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	620	APHA-5220 B
16	Oil and Grease	mg/L	50	0.14	APHA 5220 B
17	Sulphide	mg/L	2	5.2	APHA-4500
18	Sulphate	mg/L	500	32.90	Gravimetric
19	Copper	mg/L	3	<0.01	APHA-4500

*The reported results comply to the sample tested only.

Prepared by



Analyst

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Lab In-charge



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Morang Merchants' Association Complex
Pdt. Moghraj Marg (Goshwara Road), Biralnagar-7 Nepal Tel: +977-21-576887

Date: 7th Baisakh 2083

Test Report

Name of the Client	Pashupall Synpack Industries (P) Ltd.	Sampling Location	Duhabi, Sunsari
Sampled by	Client	Date of Collection	22-12-2082
Source of Sample	Final Outlet	Date of Analysis	23-12-2082
Type of Sample	Waste Water	Date of Completion	06-12-2082
Sample code No	SN- 237 (W) 2082/83		

S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	6.91	APHA-4500 H+
2	Temperature	°C	45	25.8	Electrometric
3	Total Suspended solids	mg/L	600	915	APHA-2540 D
4	Total Dissolved Solids		2100	393.7	APHA-2540 C
5	Fluoride as (F)	mg/L	10	0.23	APHA-2500 D
6	Ammonia as (NH ₄ -N)	mg/L	50	1.57	APHA-4500
7	Chloride	mg/L	1000	46.98	APHA-2500 B
8	Zinc (Zn)	mg/L	5	5.81	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.24	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	0.13	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	0.01	APHA-3111 B
12	Nickel (Ni)	mg/L	3	0.09	APHA-3111 B
13	Arsenic (As)	mg/L	1	<0.005	APHA-3500 As B
14	Biochemical Oxygen Demand	mg/L	400	190	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	370	APHA-5220 B
16	Oil and Grease	mg/L	50	0	APHA 5220 B
17	Sulphide	mg/L	2	2	APHA-4500
18	Sulphate	mg/L	500	41.13	Gravimetric
19	Copper	mg/L	3	0.22	APHA-4500

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Morang Merchants' Association Complex
Pdt. Meghraj Marga (Gostwara Road), Biratnagar-7 Nepal Tel: +977-21-576887

Date: 7th Baisakh 2083

Test Report

Name of the Client	Asian Biscuit & Confectionery (P) Ltd.	Sampling Location	Duhabi, Surneat
Sampled by	Client	Date of Collection	22-12-2082
Source of Sample	Final Outlet	Date of Analysis	23-12-2082
Type of Sample	Waste Water	Date of Completion	06-12-2082
Sample code No	SN- 238 (W) 2082/83		

S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	5.22	APHA-4500 H+
2	Temperature	°C	45	25.9	Electrometric
3	Total Suspended solids	mg/L	600	690	APHA-2540 D
4	Total Dissolved Solids		2100	345.7	APHA-2540 C
5	Fluoride as (F)	mg/L	10	<0.05	APHA-2500 D
6	Ammonia as (NH ₃ -N)	mg/L	50	0.59	APHA-4500
7	Chloride	mg/L	1000	50.98	APHA-2500 B
8	Zinc (Zn)	mg/L	5	0.55	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.07	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	<0.05	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	<0.003	APHA-3111 B
12	Nickel (Ni)	mg/L	3	<0.05	APHA-3111 B
13	Arsenic (As)	mg/L	1	<0.005	APHA-3500 Aa B
14	Biochemical Oxygen Demand	mg/L	400	375	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	720	APHA-5220 B
16	Oil and Grease	mg/L	50	0	APHA 5220 B
17	Sulphide	mg/L	2	0	APHA-4500
18	Sulphate	mg/L	500	57.58	Gravimetric
19	Copper	mg/L	3	0.10	APHA-4500

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Morang Merchants' Association Complex
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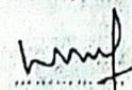
Date: 7th Baisakh 2083

Test Report


Name of the Client	Jitendra Chamal laghu Udhyog	Sampling Location	Duhabi, Sunsari
Sampled by	Client	Date of Collection	22-12-2082
Source of Sample	Final Outlet	Date of Analysis	23-12-2082
Type of Sample	Waste Water	Date of Completion	06-12-2082
Sample code No	SN- 240 (W) 2082/83		

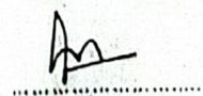
S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	7.29	APHA-4500 H+
2	Temperature	°C	45	28.1	Electrometric
3	Total Suspended solids	mg/L	800	935	APHA-2540 D
4	Total Dissolved Solids		2100	307.5	APHA-2540 C
5	Fluoride as (F)	mg/L	10	0.78	APHA-2500 D
6	Ammonia as (NH ₃ -N)	mg/L	50	1.74	APHA-4500
7	Chloride	mg/L	1000	3	APHA-2500 B
8	Zinc (Zn)	mg/L	5	1.12	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.10	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	<0.05	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	<0.003	APHA-3111 B
12	Nickel (Ni)	mg/L	3	<0.05	APHA-3111 B
13	Arsenic (As)	mg/L	1	<0.005	APHA-3500 As B
14	Biochemical Oxygen Demand	mg/L	400	305	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	590	APHA-5220 B
16	Oil and Grease	mg/L	50	0	APHA 5220 B
17	Sulphide	mg/L	2	2.4	APHA-4500
18	Sulphate	mg/L	500	139.85	Gravimetric
19	Copper	mg/L	3	0.13	APHA-4500

*The reported results comply to the sample tested only.


Prepared by




Analyst


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Lab in-charge



नेपाल बत्तावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Moring Merchants' Association Complex
Pat. Maghina Marg (Gompa Road), Bhairnagar-7 Nepal Tel: +977 31-575087

Date: 22/12/2012

Test Report

Name of the Client	S T Fabrics (P) Ltd.	Sampling Location	Outlet, Sewer
Sampled by	Client	Date of Collection	22-12-2012
Source of Sample	Final Outlet	Date of Analysis	22-12-2012
Type of Sample	Waste Water	Date of Completion	26-12-2012
Sample code No	SN- 241 (W) 2012/12		

S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	7.49	APHA-4500 H+
2	Temperature	°C	45	28.2	Electrometric
3	Total Suspended solids	mg/L	600	875	APHA-2540 D
4	Total Dissolved Solids		2100	437.9	APHA-2540 C
5	Fluoride as (F)	mg/L	10	<0.05	APHA-2500 D
6	Ammonia as (NH ₄ -N)	mg/L	50	3.49	APHA-4500
7	Chloride	mg/L	1000	15	APHA-2500 B
8	Zinc (Zn)	mg/L	5	0.30	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.13	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	<0.05	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	0.01	APHA-3111 B
12	Nickel (Ni)	mg/L	3	0.08	APHA-3111 B
13	Arsenic (As)	mg/L	1	<0.005	APHA-3500 Aa B
14	Biochemical Oxygen Demand	mg/L	400	395	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	760	APHA-5220 B
16	Oil and Grease	mg/L	50	0	APHA 5220 B
17	Sulphide	mg/L	2	0	APHA-4500
18	Sulphate	mg/L	500	90.49	Gravimetric
19	Copper	mg/L	3	0.11	APHA-4500

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नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Maharaj Merchants' Association Complex
Pat. Marginal Margha (Gandhara Road), Bhatnagar-7 Nepal Tel: +977 21 526607

Date: 06/12/2013

Test Report

Name of the Client	Shubh Laxmi Food Products	Sampling Location	Daha, Samsari
Sampled by	Client	Date of Collection	22-11-2013
Source of Sample	Final Outlet	Date of Analysis	23-11-2013
Type of Sample	Waste Water	Date of Completion	04-12-2013
Sample code No	SN- 242 (II) 2082/83		

S.N	Parameters	Units	Generic Standard Part II	Results	Method
1	pH	-	5.5-9.0	6.80	APHA-4500 H+
2	Temperature	°C	45	28.0	Electrometric
3	Total Suspended solids	mg/L	600	805	APHA-2540 D
4	Total Dissolved Solids		2100	298.7	APHA-2540 C
5	Fluoride as (F)	mg/L	10	1.92	APHA-2500 D
6	Ammonia as (NH ₄ -N)	mg/L	50	<0.05	APHA-4500
7	Chloride	mg/L	1000	1	APHA-2500 B
8	Zinc (Zn)	mg/L	5	0.15	APHA-3111 B
9	Lead (Pb)	mg/L	0.1	0.02	APHA-3111 B
10	Total Chromium (T-Cr)	mg/L	2	<0.05	APHA-3111 B
11	Cadmium (Cd)	mg/L	2	0.003	APHA-3111 B
12	Nickel (Ni)	mg/L	3	<0.05	APHA-3111 B
13	Arsenic (As)	mg/L	1	0.01	APHA-3500 As B
14	Biochemical Oxygen Demand	mg/L	400	125	APHA-5240 B
15	Chemical Oxygen Demand	mg/L	1000	250	APHA-5220 B
16	Oil and Grease	mg/L	50	0	APHA 5220 B
17	Sulphide	mg/L	2	1.20	APHA-4500
18	Sulphate	mg/L	500	41.13	Gravimetric
19	Copper	mg/L	3	0.01	APHA-4500

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Mirang Merchants' Association Complex
Pat. Magdaj Marg (Gandwara Road), Biratnagar 7 Nepal Tel: 977 21 579483

Date: 7 December 2013

Test Report

Name of the Client	Mainanath Steel Industries Limited	Sampling Location	Dubauti, Jomsom
Sampled by	Client	Date of Collection	11-12-2013
Source of Sample	ETP	Date of Analysis	11-12-2013
Type of Sample	Waste Water	Date of Completion	06-12-2013
Sample code No	SN- 239 (W) 2012/13		

SN	Parameters	Units	Generic Standard Part III	Results	Method
1	pH	-	5.5-9.0	6.19	APHA-4500 H+
2	Temperature	°C	Not Exceed than 40 °C	26.0	Electrometric
3	Total Suspended Solids	mg/L	50	160	APHA-2540 D
4	Ammonia as (NH ₄ -N)	mg/L	50	0.35	APHA-2310
5	Sulphide	mg/L	2	0.00	APHA-4500
6	Fluoride as (F)	mg/L	2	0.54	APHA-2500 D
7	Lead as (Pb)	mg/L	0.1	0.13	APHA-3111 B
8	Zinc as (Zn)	mg/L	5	0.72	APHA-3111 B
9	Nickel as (Ni)	mg/L	3	0.08	APHA-3111 B
10	Cadmium as (Cd)	mg/L	2	0.01	APHA-3111 B
11	Total Chromium as (T- Cr)	mg/L	0.1	<0.05	APHA-3111 B
12	Biochemical Oxygen Demand	mg/L	50	375	APHA-5210
13	Chemical Oxygen Demand	mg/L	250	700	APHA-5220
14	Oil & Grease	mg/L	10	0	APHA-5520
15	Residual Chlorine	mg/L	1	0	APHA-4500
16	Copper	mg/L	0.2	<0.01	APHA-4500
17	Arsenic as (As)	mg/L	0.2	<0.005	APHA-3500 -As B

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Morang Merchants' Association Complex
Pati, Meghraj Marg (Gandhara Road), Biratnagar 7 Nepal Tel: +977 21-575007

Date: 7 Baisakh 2081

Test Report

Name of the Client	Asian Thai Food Limited	Sampling Location	Dubadi, Samsari
Sampled by	Client	Date of Collection	12-12-2081
Source of Sample	E:TP	Date of Analysis	21-12-2081
Type of Sample	Waste Water	Date of Completion	06-12-2081
Sample code No	SN- 236 (11) 2082/83		

SN	Parameters	Units	Generic Standard Part III	Results	Method
1	pH	-	6.5-9.0	7.21	APHA-4500 H+
2	Temperature	°C	Not Exceed than 40 °C	26.0	Electrometric
3 ✓	Total Suspended Solids	mg/L	50	108	APHA-2540 D
4	Ammonia as (NH ₃ -N)	mg/L	50	<0.05	APHA-2510
5	Sulphide	mg/L	2	0.00	APHA-4500
6	Fluoride as (F)	mg/L	2	0.50	APHA-2500 D
7	Lead as (Pb)	mg/L	0.1	0.03	APHA-3111 B
8	Zinc as (Zn)	mg/L	5	0.05	APHA-3111 B
9	Nickel as (Ni)	mg/L	3	<0.05	APHA-3111 B
10	Cadmium as (Cd)	mg/L	2	<0.003	APHA-3111 B
11	Total Chromium as (T- Cr)	mg/L	0.1	<0.05	APHA-3111 B
12 ✓	Biochemical Oxygen Demand	mg/L	50	64	APHA-5210
13	Chemical Oxygen Demand	mg/L	250	120	APHA-5220
14	Oil & Grease	mg/L	10	0	APHA-5520
15	Residual Chlorine	mg/L	1	0	APHA-4500
16	Copper	mg/L	0.2	<0.01	APHA-4500
17	Arsenic as (As)	mg/L	0.2	<0.005	APHA-3500 -As B

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