MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild
Address: Integrated Solid Waste Management System For Sialkot

Sampling By: Client
Nature of Sample: Municipal Solid Waste
Monitoring Date: 5-01-2022
Reporting Date: 31-01-2022
Sampling Point: Container
Reference ID: SEAL/LAB/2022/MSW/581

Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	53.06
2	Ash Content	%	ASTM D3174-11	25.17
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	10.01 :2.20
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	2924

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager

MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild **Address:** Integrated Solid Waste Management System For Sialkot

Sampling By: Client **Nature of Sample:** Municipal Solid Waste
Monitoring Date: 5-01-2022 **Reporting Date:** 31-01-2022
Sampling Point: Dumpsite
Reference ID: SEAL/LAB/2022/MSW/582
Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	47.14
2	Ash Content	%	ASTM D3174-11	15.85
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	19.2 :3.01
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	4510.0

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager

MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild **Address:** Integrated Solid Waste Management System For Sialkot

Sampling By: Client **Nature of Sample:** Municipal Solid Waste
Monitoring Date: 5-01-2022 **Reporting Date:** 31-01-2022
Sampling Point: Middle
Reference ID: SEAL/LAB/2022/MSW/583
Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	42.10
2	Ash Content	%	ASTM D3174-11	45.04
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	8.30 :3.20
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	5670

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager

MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild **Address:** Integrated Solid Waste Management System For Sialkot

Sampling By: Client **Nature of Sample:** Municipal Solid Waste
Monitoring Date: 5-01-2022 **Reporting Date:** 31-01-2022
Sampling Point: Higher
Reference ID: SEAL/LAB/2022/MSW/584
Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	44.21
2	Ash Content	%	ASTM D3174-11	15.96
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	14.2 : 3.30
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	6425.0

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager

MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild **Address:** Integrated Solid Waste Management System For Sialkot

Sampling By: Client **Nature of Sample:** Municipal Solid Waste
Monitoring Date: 5-01-2022 **Reporting Date:** 31-01-2022
Sampling Point: Industry
Reference ID: SEAL/LAB/2022/MSW/585
Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	30.72
2	Ash Content	%	ASTM D3174-11	35.78
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	11.4 :3.20
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	12530

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager

MUNICIPAL SOLID WASTE ANALYSIS REPORT

Client Name: Engineers Guild **Address:** Integrated Solid Waste Management System For Sialkot

Sampling By: Client **Nature of Sample:** Municipal Solid Waste
Monitoring Date: 5-01-2022 **Reporting Date:** 31-01-2022
Sampling Point: Lower
Reference ID: SEAL/LAB/2022/MSW/586
Results:-

Sr. No.	Parameters	Unit	Dischararge Source	Results
1	Moisture Content Test	%	ASTM D3163-11	43.0
2	Ash Content	%	ASTM D3174-11	45.02
3	Carbon & Nitrogen Ratio	%	ASTM D-5373-14	6.73:1.08
4	Gross Calorific Value	kcal/kg	ASTM D-5865-13	3518.0

ASTM = American Society for Testing and Materials

Note:

- This report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left-over samples (if so available) shall be retained for 15 days after the issuance of the report unless otherwise negotiated between the client and the laboratory.
- The report is not valid for any negotiations.

ANALYZED BY	REVIEWED BY	APPROVED BY
Lab Analyst	Assistant Lab Manager	Lab Manager