

ENVIRONMENT MONITORING REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 31/01/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 5	10
2	Temperature	°C	SOP-PQT-KT06	58.0
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	<1.0
5	Formaldehyde gas (HCHO)	mg/Nm ³	PD CEN/TS 13649	<0.025

Notes / Remarks:

- Sample taken under Contract No. 50/DPM/VT-TTQT/D-VD dated 10/03/2022.
- Flow rate refers to plant design specifications.
- Subcontractor analysis: Environmental Technology & Occupational Hygiene Consulting Center.

HEAD OF ENVIRONMENTAL ADVISORY / TESTING DIVISION

DIRECTOR / VICE DIRECTOR

Nguyen Thi Le Hang / Nguyen Thi Hang

Le Tuan Kiet / Nguyen Xuan Son / Vo Phi Long

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 01/03/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 5	10
2	Temperature	°C	SOP-PQT-KT06	52.7
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Formaldehyde gas (HCHO)	mg/Nm ³	PD CEN/TS 13649	<1.0

Notes / Remarks:

- Sample taken under Contract No. 50/DPM/VT-TTQT/D-VD dated 10/03/2022.
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2. **Date of Monitoring:** 27/03/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	2.0

Notes / Remarks:

- Sample taken under Contract No. 50/DPM/VT-TTQT/D-VD dated 10/03/2022.

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Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 29/06/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 5	<1.0
2	Temperature	°C	SOP-PQT-KT06	43.2
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	18
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Flow rate refers to plant design specifications.

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 31/07/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 5	<1.0
2	Temperature	°C	SOP-PQT-KT06	61.3
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	1.1
5	Formaldehyde gas (HCHO)	mg/Nm ³	PD CEN/TS 13649	<0.025

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: Dai Phu Construction & Environment JSC.

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ENVIRONMENT MONITORING REPORT

Official Technical Translation & Environmental Compliance Record

1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 06/09/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 5	10
2	Temperature	°C	SOP-PQT-KT06	49.6
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	2.9
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.0001

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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2. **Date of Monitoring:** 27/09/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm3	US EPA Method 5	55
2	Temperature	°C	SOP-PQT-KT06	64.2
3	Flow rate	m3/h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH3)	mg/Nm3	JIS K 0099:2020	1.2
5	Formaldehyde gas (HCHO)	mg/Nm3	PD CEN/TS 13649	<0.025

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: Dai Phu Construction & Environment JSC.

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ENVIRONMENT MONITORING REPORT

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 12/10/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	129
2	Temperature	°C	SOP-PQT-KT06	43.1
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	<1.0
5	Formaldehyde gas (HCHO)	mg/Nm ³	PD CEN/TS 13649	<0.025

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 25/11/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	<1.0
2	Temperature	°C	SOP-PQT-KT06	48.3
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	<1.0
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 27/11/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	1.0
2	Temperature	°C	SOP-PQT-KT06	50.4
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	<1.0
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 04/12/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	2.7
2	Temperature	°C	SOP-PQT-KT06	45.3
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	<1.0
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
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2. **Date of Monitoring:** 06/12/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	1.8
2	Temperature	°C	SOP-PQT-KT06	44.1
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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2. **Date of Monitoring:** 06/12/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2020	38

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.

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1. **Sampling Location:** Exhaust gas from the prilling tower stack of Phu My Fertilizer Plant
2. **Date of Monitoring:** 26/12/2023
3. **Customer / Client:** PetroVietnam Fertilizer and Chemicals Corporation - JSC - Phu My Fertilizer Plant

4. Analytical / Measurement Results:

No.	Parameter / Analysis Norm	Unit	Method / Equipment	Result
1	Total Particulate Matter (PM)	mg/Nm ³	US EPA Method 05	8.7
2	Temperature	°C	QT-KT-008	56.3
3	Flow rate	m ³ /h	Plant design specification reference (*)	763,000
4	Ammonia gas (NH ₃)	mg/Nm ³	JIS K 0099:2004	9.8
5	Formaldehyde gas (HCHO)	mg/Nm ³	US EPA Method 0011	<0.05

Notes / Remarks:

- Sample taken under Contract No. 117-23/PVFCCo/CUVTTB-TTQT/M-DV dated 29/06/2023.
- Subcontractor analysis: NAVITEK Food & Environmental Testing JSC.

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