

Stack Emission Monitoring Data

Report No.: ENV/ACIL/22-23/SE-04/06
Date : 10/05/2022

Order No.: 6700019663/HO
Date : 21/07/2021

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/06		
02	Date of Sampling	24.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	63		
07	Exit Velocity of Gas (m/sec)	13.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:

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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/ACIL/22-23/SE-04/02
Date : 10/05/2022

Order No.: 6700019663/HO
Date : 21/07/2021

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/02		
02	Date of Sampling	23.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	51		
07	Exit Velocity of Gas (m/sec)	8.9		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	178	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	108	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/22-23/SE-04/03

Date : 10/05/2022

Order No.: 6700019663/HO

Date : 21/07/2021

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/03		
02	Date of Sampling	23.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	218		
07	Exit Velocity of Gas (m/sec)	14.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Date : 21/07/2021

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Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/04		
02	Date of Sampling	23.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	12	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

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Date : 10/05/2022

Order No.: 6700019663/HO
Date : 21/07/2021

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/05		
02	Date of Sampling	25.04.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	103		
07	Exit Velocity of Gas (m/sec)	6.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	40	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	468	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	211	mg/Nm ³	300



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Report No.: ENV/ACIL/22-23/SE-04/01
Date : 10/05/2022

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Date : 21/07/2021

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-04/01		
02	Date of Sampling	23.04.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	183		
07	Exit Velocity of Gas (m/sec)	17.9		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	572	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	324	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-05/01

Date : 08/06/2022

Order No.: 6700023095/HO

Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/01		
02	Date of Sampling	29.05.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	68		
07	Exit Velocity of Gas (m/sec)	14.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-05/03

Date : 08/06/2022

Order No.: 6700023095/HO

Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/03		
02	Date of Sampling	30.05.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	9.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	17	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	183	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	112	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-05/04

Date : 08/06/2022

Order No.: 6700023095/HO

Date : 13/05/2022

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Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/04		
02	Date of Sampling	30.05.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	220		
07	Exit Velocity of Gas (m/sec)	14.9		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	20	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/06		
02	Date of Sampling	30.05.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	14	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-05/02
Date : 08/06/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/02		
02	Date of Sampling	29.05.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	101		
07	Exit Velocity of Gas (m/sec)	6.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	42	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	456	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	216	mg/Nm ³	300




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Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-05/05		
02	Date of Sampling	30.05.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	179		
07	Exit Velocity of Gas (m/sec)	18.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	581	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	319	mg/Nm ³	800




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Report No.: ENV/ACIL/22-23/SE-06/01
Date : 08/07/2022

Order No.: 6700019663/HO
Date : 21/07/2021

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-06/01		
02	Date of Sampling	13.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	66		
07	Exit Velocity of Gas (m/sec)	13.4		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

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STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-06/03		
02	Date of Sampling	13.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	55		
07	Exit Velocity of Gas (m/sec)	9.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	194	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	126	mg/Nm ³	800



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Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-06/04		
02	Date of Sampling	14.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	218		
07	Exit Velocity of Gas (m/sec)	13.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	18	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

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Date : 08/07/2022

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Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-06/06		
02	Date of Sampling	14.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.5		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	16	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

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02	Date of Sampling	13.06.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	102		
07	Exit Velocity of Gas (m/sec)	6.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	40	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	463	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	233	mg/Nm ³	300
iv.	Mercury (as Hg)	<0.01	mg/Nm ³	0.03



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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/ACIL/22-23/SE-06/05
Date : 08/07/2022

Order No.: 6700019663/HO
Date : 21/07/2021

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-06/05		
02	Date of Sampling	14.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	176		
07	Exit Velocity of Gas (m/sec)	17.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	574	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	305	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/ACIL/22-23/SE-07/01
Date : 08/08/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/01		
02	Date of Sampling	15.07.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	65		
07	Exit Velocity of Gas (m/sec)	13.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/ACIL/22-23/SE-07/02
Date : 08/08/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/02		
02	Date of Sampling	15.07.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	51		
07	Exit Velocity of Gas (m/sec)	9.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	48	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	93	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-07/03
Date : 08/08/2022

Order No.: 6700 023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/03		
02	Date of Sampling	15.07.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	217		
07	Exit Velocity of Gas (m/sec)	14.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/22-23/SE-07/04
 Date : 08/06/2022

Order No.: 6700 023095/HO
 Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
 Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/04		
02	Date of Sampling	16.07.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	16	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-07/05

Date : 08/08/2022

Order No.: 6700 023095/HO

Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/05		
02	Date of Sampling	16.07.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	103		
07	Exit Velocity of Gas (m/sec)	6.9		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	39	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	473	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	226	mg/Nm ³	300



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Report No.: ENV/ACIL/22-23/SE-07/06
 Date : 08/08/2022

Order No.: 6700 023095/HO
 Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
 Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-07/06		
02	Date of Sampling	16.07.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	172		
07	Exit Velocity of Gas (m/sec)	17.6		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	592	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	321	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-08/01

Date : 02/09/2022

Order No.: 6700023095/HO

Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/01		
02	Date of Sampling	20.08.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	63		
07	Exit Velocity of Gas (m/sec)	13.4		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/ACIL/22-23/SE-08/02
Date : 02/09/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/02		
02	Date of Sampling	20.08.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	9.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	103	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	86	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-08/03
Date : 02/09/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/03		
02	Date of Sampling	20.08.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	220		
07	Exit Velocity of Gas (m/sec)	14.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-08/04
Date : 02/09/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/04		
02	Date of Sampling	21.08.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	12	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-08/05
Date : 02/09/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/05		
02	Date of Sampling	21.08.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	101		
07	Exit Velocity of Gas (m/sec)	6.7		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	41	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	464	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	218	mg/Nm ³	300



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Report No.: ENV/ACIL/22-23/SE-08/06
Date : 02/09/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-08/06		
02	Date of Sampling	21.08.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	176		
07	Exit Velocity of Gas (m/sec)	18.4		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	27	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	603	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	328	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-09/01
Date : 07/10/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/01		
02	Date of Sampling	09.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
06	Flue Gas Temperature (°C)	64		
07	Exit Velocity of Gas (m/sec)	13.2		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



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Report No.: ENV/ACIL/22-23/SE-09/02
Date : 07/10/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/02		
02	Date of Sampling	09.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill No. 1 B. F.		
06	Flue Gas Temperature (°C)	54		
07	Exit Velocity of Gas (m/sec)	9.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	18	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	197	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	122	mg/Nm ³	800



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Report No.: ENV/ACIL/22-23/SE-09/03

Date : 07/10/2022

Order No.: 6700023095/HO

Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/03		
02	Date of Sampling	09.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P.		
06	Flue Gas Temperature (°C)	223		
07	Exit Velocity of Gas (m/sec)	14.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	20	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	800

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/ACIL/22-23/SE-09/06
Date : 07/10/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To : **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/06		
02	Date of Sampling	10.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
06	Flue Gas Temperature (°C)	27		
07	Exit Velocity of Gas (m/sec)	4.3		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	14	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL*	mg/Nm ³	700
iii.	Oxides of Nitrogen (as NO _x)	BDL*	mg/Nm ³	600

*BDL: Below Detection Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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2. Results refer only to the particular parameters tested.
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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/ACIL/22-23/SE-09/05
Date : 07/10/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/05		
02	Date of Sampling	10.09.2022		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	CPP		
06	Flue Gas Temperature (°C)	101		
07	Exit Velocity of Gas (m/sec)	6.1		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	42	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	457	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	229	mg/Nm ³	300
iv.	Mercury (as Hg)	<0.01	mg/Nm ³	0.03



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/ACIL/22-23/SE-09/04
Date : 07/10/2022

Order No.: 6700023095/HO
Date : 13/05/2022

Report Issued To: **AMRIT CEMENTS INDUSTRIES LTD**
Village: Umlaper, Elaka Rymbai, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	ACIL/22-23/SE-09/04		
02	Date of Sampling	10.09.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	R. A. B. H.		
06	Flue Gas Temperature (°C)	178		
07	Exit Velocity of Gas (m/sec)	17.5		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	579	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	312	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

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