



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.08.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpynggad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report and Water Analysis report for the month of July'2024 for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED




Authorized Signatory



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 234542/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
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BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
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E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/24-25/AA-07/01
 Date : 07/08/2024

Order No.: 4700031168
 Date : 09/07/2024

Report Issued To: **MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai, PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg/m³)	NI (ng/m³)	As (ng/m³)	Pb (µg/m³)
LIMITS →	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near Residential Colony	20.07.2024	28.3	54.7	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Thangskai Village	21.07.2024	19.3	39.2	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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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/MCL/24-25/AA-07/02
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Near Soil Dump	21.07.2024	29.7	52.1	7.3	7.6
02	Near Haul Road	21.07.2024	32.6	55.4	8.5	9.2
03	Near Lease Boundary	21.07.2024	28.2	53.6	7.1	7.4

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/N-07/02
 Date : 07/08/2024

Order No.: 4700031168
 Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Mines Haul Road	21.07.2024	67.2	75	60.4	70
2	Near Soil Dump	21.07.2024	62.4	75	57.9	70
3	Near Lease Boundary	21.07.2024	64.8	75	59.2	70



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/SW-07/01
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2307/01
Collected On : 23-07-2024

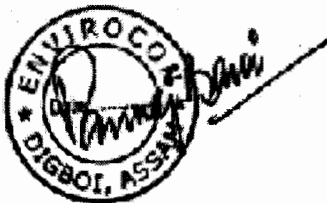
Sample Source : Um-Lunar River Upstream
Received On : 27-07-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	45	--	--
6.	Total Dissolved Solids, mg/l, Max.	133	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	185	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	29	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	8.7	200	600
14.	Calcium (as Ca), mg/l, Max.	20	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.0	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	5.9	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/2024/SW-2307/02
Collected On : 23-07-2024

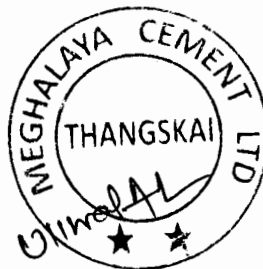
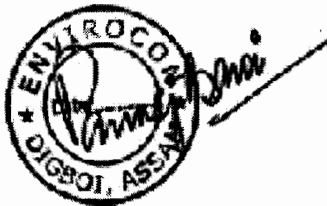
Sample Source : Um-Lunar River Downstream
Received On : 27-07-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* In the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	--	--
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	56	--	--
6.	Total Dissolved Solids, mg/l, Max.	139	500	2000
7.	Conductivity, µS/cm	187	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	36	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.5	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.7	--	--
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.08.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpynggad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report, Ambient Noise survey report and Water analysis report for the month of July'2024 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

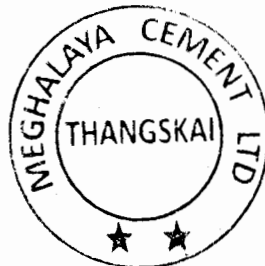
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



Authorized Signatory



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Mega Plaza, 4th Floor, Christian Basti
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BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
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Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



Report No.: ENV/MCL/24-25/AA-07/01
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **MEGHALAYA CEMENTS LIMITED**
Village: Thangskai, PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	NH ₃ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	B(a)P (ng/m ³)	C ₄ H ₆ (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Pb (µg/m ³)
LIMITS →	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near Residential Colony	20.07.2024	28.3	54.7	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Thangskai Village	21.07.2024	19.3	39.2	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/AA-07/03
 Date : 07/08/2024

Order No.: 4700031168
 Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Near CCR Building	20.07.2024	24.8	44.1	<5.0	<6.0
02	Near LS Crusher	20.07.2024	31.7	53.9	6.7	7.5
03	Near CPP Area	20.07.2024	32.9	54.7	6.3	7.1

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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/MCL/24-25/SE-07/11
 Date : 07/08/2024

Order No.: 4700031168
 Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/11		
02	Date of Sampling	22.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
05	Stack Diameter (Meter)	1.19		
06	Flue Gas Temperature (°C)	27		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm ³ /hr)	16707		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	14	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-07/12
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/12		
02	Date of Sampling	22.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	31		
07	Exit Velocity of Gas (m/sec)	4.6		
08	Flow Rate (Nm ³ /hr)	15174		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	15	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-07/01
 Date : 07/08/2024

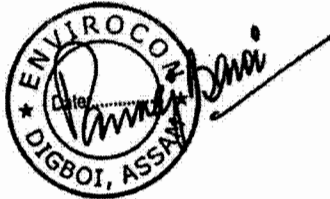
Order No.: 4700031168
 Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/01		
02	Date of Sampling	20.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill - 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	52		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm ³ /hr)	44768		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
1	Particulate Matter	22	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-07/02

Date : 07/08/2024

Order No.: 4700031168

Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/02		
02	Date of Sampling	20.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill - 2		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	48		
07	Exit Velocity of Gas (m/sec)	11.3		
08	Flow Rate (Nm ³ /hr)	41305		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30

*NA: Not Applicable



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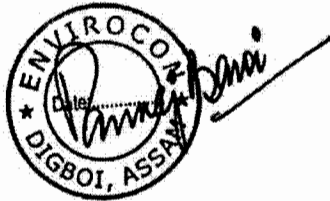
Report No.: ENV/MCL/24-25/SE-07/05
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/05		
02	Date of Sampling	21.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 1		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	174		
07	Exit Velocity of Gas (m/sec)	17.2		
08	Flow Rate (Nm ³ /hr)	291829		
09	Type of Fuel Used	Kiln Coal		
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)	621	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	315	mg/Nm ³	600



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Report No.: ENV/MCL/24-25/SE-07/06

Date : 07/08/2024

Order No.: 4700031168

Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/06		
02	Date of Sampling	21.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 2		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	169		
07	Exit Velocity of Gas (m/sec)	16.9		
08	Flow Rate (Nm ³ /hr)	252607		
09	Type of Fuel Used	Kiln Coal		
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)	615	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	287	mg/Nm ³	600



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/MCL/24-25/SE-07/03

Date : 07/08/2024

Order No.: 4700031168

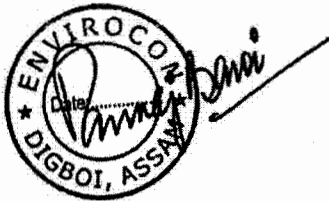
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/03		
02	Date of Sampling	20.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. - 1		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	114		
07	Exit Velocity of Gas (m/sec)	8.2		
08	Flow Rate (Nm ³ /hr)	139986		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
1.	Particulate Matter	25	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-07/04

Date : 07/08/2024

Order No.: 4700031168

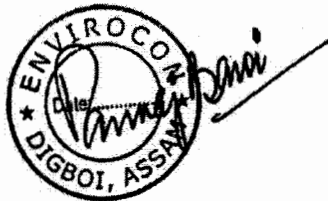
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/04		
02	Date of Sampling	20.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. - 2		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	124		
07	Exit Velocity of Gas (m/sec)	9.1		
08	Flow Rate (Nm ³ /hr)	151437		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
L	Particulate Matter	27	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-07/09

Date : 07/08/2024

Order No.: 4700031168

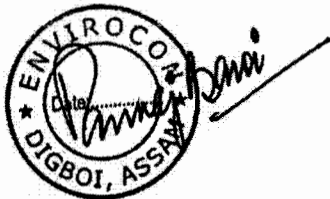
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/09		
02	Date of Sampling	22.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	62		
07	Exit Velocity of Gas (m/sec)	12.2		
08	Flow Rate (Nm ³ /hr)	44192		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
1	Particulate Matter	24	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-07/10
 Date : 07/08/2024

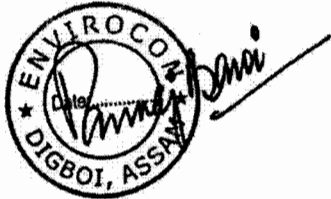
Order No.: 4700031168
 Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/10		
02	Date of Sampling	22.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	65		
07	Exit Velocity of Gas (m/sec)	14.6		
08	Flow Rate (Nm ³ /hr)	52416		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-07/07

Date : 07/08/2024

Order No.: 4700031168

Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/07		
02	Date of Sampling	21.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 1		
05	Stack Diameter (Meter)	0.6		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	12.3		
08	Flow Rate (Nm ³ /hr)	12191		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i	Particulate Matter	25	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-07/08

Date : 07/08/2024

Order No.: 4700031168

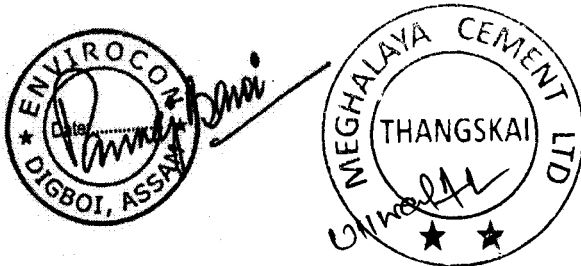
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/08		
02	Date of Sampling	21.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 2		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	32		
07	Exit Velocity of Gas (m/sec)	15.2		
08	Flow Rate (Nm ³ /hr)	42134		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
1	Particulate Matter	22	mg/Nm ³	30

*NA: Not Applicable



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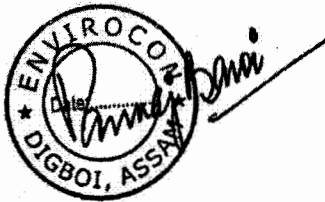
Report No.: ENV/MCL/24-25/SE-07/13
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-07/13		
02	Date of Sampling	28.05.2024		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Stack Diameter (Meter)	2.53		
06	Flue Gas Temperature (°C)	94		
07	Exit Velocity of Gas (m/sec)	7.6		
08	Flow Rate (Nm ³ /hr)	111700		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	42	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	416	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	166	mg/Nm ³	300
iv.	Mercury (as Hg)	<0.001	mg/Nm ³	0.03



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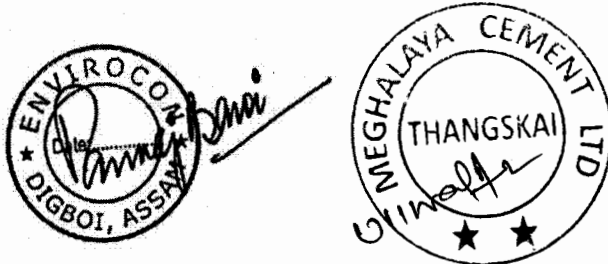
Report No.: ENV/MCL/24-25/N-07/01
 Date : 07/08/2024

Order No.: 4700031168
 Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Residential Colony	20.07.2024	45.9	55	40.5	45
2	Near L.S Crusher	20.07.2024	69.1	75	65.6	70
3	Thangskai Village	20.07.2024	41.3	55	36.7	45
4	Near CCR Building	20.07.2024	68.3	75	64.1	70



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Report No.: ENV/MCL/24-25/SW-07/01
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2307/01
Collected On : 23-07-2024

Sample Source : Um-Lunar River Upstream
Received On : 27-07-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	45	--	--
6.	Total Dissolved Solids, mg/l, Max.	133	500	2000
7.	Conductivity, μ S/cm	185	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	29	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.7	200	600
14.	Calcium (as Ca), mg/l, Max.	20	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.0	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	5.9	--	--
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SW-07/02
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2307/02
Collected On : 23-07-2024

Sample Source : Um-Lunar River Downstream
Received On : 27-07-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	--	--
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	56	--	--
6.	Total Dissolved Solids, mg/l, Max.	139	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	187	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	36	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.5	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	6.7	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Signature

Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/WW-07/02
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/STP-2307/02 Sample Source : STP Outlet (MCL) Sample Type : ETP Treated Water
Collected On : 23-07-2024 Received On : 27-07-2024 Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	Ph	7.12	6.5 - 9.0
2	Total Suspended Solids (as TSS), mg/l	32	<100
3	Fecal Coliform (as FC), MPN/100 ml	652	<1000
4	Biochemical Oxygen Demand (as BOD), mg/l	18	30
5	Chemical Oxygen Demand (as COD), mg/l	81	250*
6	Oil & Grease, mg/l	<4.0	10.0*
7	Total Residual Chlorine, mg/l	<0.01	1.0*
8	Ammonical Nitrogen (as N), mg/l	3.3	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	8.4	100*
10	Free Ammonia (as NH ₃), mg/l	<0.01	5.0*

Analysis Protocol: IS 3025

MPN: Most Probable Number

*Limit as per G.S.R. 422(E), 19.05.1993



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/WW-07/01
Date : 07/08/2024

Order No.: 4700031168
Date : 09/07/2024

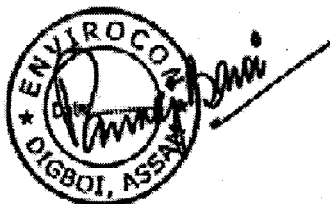
Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/ETP-2307/01 Sample Source : ETP Outlet (MCL) Sample Type : ETP Treated Water
Collected On : 23-07-2024 Received On : 27-07-2024 Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 422(E), 19.05.1993]
1	Ph	6.82	6.5 – 9.0
2	Temperature, °C	25.5	shall not exceed 5°C above the receiving water temperature
3	Total Suspended Solids (as TSS), mg/l	39	100
4	Biochemical Oxygen Demand (as BOD), mg/l	24	30
5	Chemical Oxygen Demand (as COD), mg/l	77	250
6	Oil & Grease, mg/l	<4.0	10.0
7	Total Residual Chlorine, mg/l	<0.01	1.0
8	Ammonical Nitrogen (as N), mg/l	24	50
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	38	100
10	Free Ammonia (as NH ₃), mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.08.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpynggad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month July'2024 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

Thanking you Sir,



Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


Authorized Signatory



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District: East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666




PROCESS FUGITIVE EMISSION TEST RESULTS

July'2024

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
12.07.2024	Lime stone Storage Area	1158	5000
13.07.2024	Coal Storage Area	829	2000
16.07.2024	Clinker Loading Area	2153	5000
20.07.2024	Cement Loading Area	2358	5000
24.07.2024	Coal Storage Area (CPP)	1321	2000
26.07.2024	Fly Ash Silo Area (CPP)	1058	2000

Prepared by
(Abhigyan Gautam)

Checked & Verified by
Ujjwal Anurag
(Ujjwal Anurag)



Report No.: ENV/MCL/24-25/FE-07/01
 Date : 07/08/2024

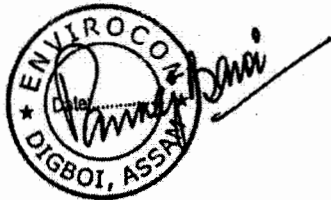
Order No.: 4700031168
 Date : 09/07/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
 Village: Thangskai; PO: Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM (µg/m³)	Limits (µg/m³)
01	Cement Loading Point	22.07.2024	822	2000
02	CPP Coal Storage	22.07.2024	771	2000
03	Clinker Loading Point	21.07.2024	1943	5000
04	Raw Material Yard	21.07.2024	721	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

<p>NOTE:</p> <ol style="list-style-type: none"> 1. Results reported are valid at the time of and under the prevailing conditions of measurement. 2. Results refer only to the particular parameters tested. 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.
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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.



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.08.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the water consumption report of 10 MW Captive Power Plant for the month of July'2024.

Month

July'2024

Water Consumption

17,780m³

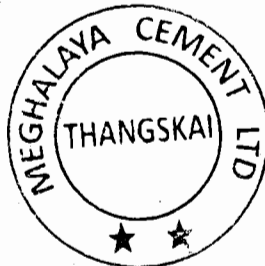
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED




Authorized Signatory



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HELPLINE NO : 18001233666





MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.08.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpynggad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the water consumption report of 2600 TPD Cement Manufacturing Plant for the month of July'2024.

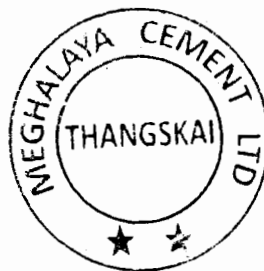
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED




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HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of July' 2024

Name and Address of the consumer	Purpose for which water consumed	Source Tube Well/River etc.	Reading at the beginning of the first day of the calendar month under report	Reading at the end of the last day of the calendar month under report	Quantity of water consumed in Kilolitres	If the meter was out of order the monthly average consumption of water for the previous 3 month of working periods	Quantity of water qualifying for rebate according to the assesses	Remarks (*)
1	2	3	4	5	6	7	8	9
MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	Domestic purpose	River	(a) 459965 (b) 62788 (c) 862575	(a) 462047 (b) 63934 (c) 864244	4897	-	-	Qty. of water consumed from river water = 4,897 + 13,844 = 18,741 KL
	Industrial cooling	River	(a) 314564 (b) 313647 (c) 893996	(a) 320878 (b) 325331 (c) 905781	13844	-	-	Qty of water circulation & returned = 12,630 + 3,310 = 15,939 KL
	Industrial Purpose	-	-	-	Nil	-	-	-

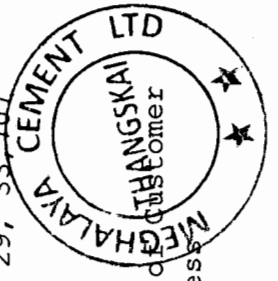
For claiming the rebate under the column 7, the assesses has indicated in this column that has been analytical and the test report were annexed in this return to support the claim.

Note: (1) Initial reading of the return line flow meter at the beginning of the month = 29, 33,707

Final reading of the return line flow meter at end of month = 29, 46,337

(2) Initial reading of S.T.P flow meter at the beginning of the month = 1, 83,652

Final reading of S.T.P flow meter at the end of the month = 1, 86,962



Name of the consumer
Address