



RAIN CEMENTS LIMITED

RCL /U-II/ENV/2023/9

Date:15.05.2023

To,
The Regional Director,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Vijayawada Green House Complex,
Gopala Reddy Road, Vijayawada – 520010, Andhra Pradesh

Sub: - Submission of Half Yearly Environment Clearance Compliance Report along with Environmental Monitoring Report for the period of October 2022 to March 2023 for Cement Plant of Rain Cements Ltd (Unit-II), Andhra Pradesh.

Ref: - EC F. No. J-11011/390/2006-IA II (I) Dated: 18th May 2007

Dear Sir,
Please find the enclosed herewith the Half Yearly Environment Clearance compliance report along with Monthly Environmental Monitoring report from **October 2022 to March 2023**, for Cement Plant of Rain Cements Ltd (Unit-II), at Boincheruvupally Village, Peapully Mandal, Nandyal Distt., Andhra Pradesh-518220.

This is for your kind information and record.

Thanking you,

Yours faithfully,

**For RAIN CEMENTS LTD.,
(UNIT – II)**


(C. MALLIKARJUNA REDDY)
CHIEF GENERAL MANAGER (WORKS)

CC: 1) Member Secretary, HO-APPCB, Autonagar, Vijayawada
2) Regional Director, CPCB, Bengaluru

Encl: Half Yearly EC compliance report along with Environment Monitoring report.



PRIYA CEMENT®
Lives Forever

Unit - II : RCL, Sreepuram, Boincheruvupalli Village, Peapully Mandal, Kurnool Dist - 518 220, AP, India

Ph: 08522 249919 Fax: 08522 249920

www.priyacement.com, CIN: U23209TG1999PLC031631.

COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE



**M/S RAIN CEMENTS LIMITED
(UNIT-II - BOINACHERUVUPALLI)**

SREEPURAM, BOINACHERUVUPALLI (VILLAGE), PEAPULLY (MANDAL)

NANDYAL (DIST.), ANDHRA PRADESH – 518220

EC F. No. J-11011/390/2006-IA II (I) Dated: 18th May 2007

Compliance Report for the period of 01.10.2022 to 31.03.2023

**Compliance of the conditions stipulated in the environmental clearance accorded by MOEFCC
F.No. J-11011/390/2006-IA II (I) Dt: 18th May 2007**

A. Specific Conditions:

	Condition	Compliance
i	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the AP Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed 50 mg/Nm ³ . Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system as per the recommendations of the CREP guidelines and on-line data shall be submitted to the APPCB and CPCB regularly. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	Online monitoring equipment attached to 1. Line I Kiln & Raw Mill, 2. Line II kiln & Raw Mill 3. Line II coal Mill, 4. Line II cooler ESP 5. Line I Cooler ESP, 6. Line II Cement Mill 7. Line I Cement Mill, 8. Line I Coal Mill Stacks. (Annexure I) Every month NABL certified third party Laboratory monitoring & reports (Annexure V) submitting to Member Secretary, APPCB, Vijayawada, Joint Chief Environmental Engineer, Zonal Office and Environmental Engineer, Regional office, APPCB, Kurnool. Interlocking Facility given with pollution control equipment. http://rtdms.cpcb.gov.in/industry-login Username: unit2environment@priyacement.com Password: Safety@444 https://appcb.glensserver.com/#/login Username: MRCL Password: Mrcl@456
ii	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and reports submitted to the APPCB quarterly and to the Ministry's Regional Office at Bangalore half yearly. One ambient air quality monitoring station shall be installed in downwind direction.	Ambient Air Quality Monitoring is carrying out by NABL certified third party Laboratory and reports are submitting as per the schedule (Annexure V) . Two Continuous Ambient Air Quality Monitoring Stations are installed at upwind and downwind directions. Data uploading to PCB sites for Real Time Monitoring. http://rtdms.cpcb.gov.in/industry-login Username: unit2environment@priyacement.com Password: Safety@444 https://appcb.glensserver.com/#/login Username: MRCL Password: Mrcl@456
iii	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Dust collectors shall be provided to cement silo, cement mill and transfer points. Electrostatic Precipitator (ESP) to clinker cooler, bag house to the raw mill kiln and bag filters to coal mill, crusher etc. shall be provided to control air emissions less than 50 mg/Nm ³ . The dust collected from the pollution	Bag filters are provided to: Line-1 and Line-2 RABH Stacks, Coal Mill, Cement Mills and ESPs are provided to Line-1 and Line-2 Cooler stacks. In addition to the above 62 No's of bag filters installed at various material transfer points to arrest the fugitive dust emissions. Raw material storage sheds, Cement Silo's and Clinker Storage are provided. (Annexure III)

	control equipments shall be recycled back into the process. Storage of raw material shall be in closed roof sheds. Water spray system shall be provided all around the coal stockpiles and dust suppression system around the coal conveyor system.	
iv	Asphalting/concreting of roads shall be carried out to control fugitive emissions.	All Plant and colony internal roads laid concrete and engaged two mechanized road sweepers to control fugitive dust emissions. (Annexure IV)
v	Total water requirement from the ground water source shall not exceed 680 m ³ /d ground water and 120 m ³ /d surface water as per the permission accorded by the Department of Water Resources, Govt. of A.P. All the treated wastewaters shall be recycled and reused for ash conditioning, dust suppression, green belt development and other plant related activities etc. No effluent shall be discharged outside the factory premises and 'zero discharge' shall be adopted. Domestic effluent shall be treated in Sewage Treatment Plant (STP) and used for green belt development within the plant premises and colony area.	Following and Sewage treatment plant commissioned in the year 2009, upgraded during the year 2016. Treated water is being utilized for gardening.
vi	All the recommendations of the State Ground Water Department, Government of Andhra Pradesh including tapping of 680 m ³ /d ground water and 120 m ³ /d surface water and its storage in mining pit shall be followed.	Following the recommendations of the State Ground Water Department.
vii	The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water. The company must also collect rainwater in the mined-out pits of captive limestone mine and use the same water for the various activities of the project to conserve fresh water.	Harvesting the rainwater from storm water drains. Collecting rainwater in the mined-out pits of captive limestone mine. The same water using for industrial consumption.
viii	As proposed in EIA/EMP, green belt shall be developed in 53.1 ha. Out of total 67.9 ha. Land in consultation with the local DFO as per the CPCB guidelines.	53.5 ha of green belt developed in plant and colony area. (Annexure II)
ix	All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. Refractory bricks from the kiln section due to high recycling value shall be sold to authorized agencies. STP sludge shall be used for bio-compositing and finally for the green belt development. Hazardous waste viz. Spent oil from gear boxes and automobile batteries etc. shall be properly stored in designated area and sold to authorize recyclers/preprocessors.	Following.
x	Efforts shall be made to use more fly ash and solid waste in the cement manufacturing.	The industry utilized fly ash in PPC on an average of 28.14% & OPC on an average of 4.91% during the period Oct'2022 to March'2023.
xi	A provision shall be made in the cement kiln to use high calorific hazardous waste.	The industry is using high calorific value PET-COKE as fuel in Kiln and got permission for

		utilization of pet Coke as fuel on 05.03.2018 through CFO amendment and recently it's renewed with CFO.
xii	The company shall undertake eco-development measures including community welfare measures in the project are.	The industry developed the green belt in the extent of 53.5 ha and harvesting the rainwater instead of ground water utilization and using fly ash in cement production as well as reducing the CO2 levels as eco-development measures. As a part of CSR, we are running a well-equipped English Medium school up to 10 th standard, hospital with 10 bedded with free health checkup and medication for employees and surrounding villagers.
xiii	All the recommendations of the CREP guidelines shall be strictly followed.	Following.
xiv	Prior environmental clearance shall be obtained from the Ministry for the limestone to be sourced from the Racherla captive limestone mine.	Obtained. J-11015/326 and 481/2006-IA. II(M) & SEIAA/AP/KNL-51/2009-2774

B. General Conditions: -

i	The project authority must adhere to the stipulations made by A.P. State Pollution Control Board (APPCB) and State Government.	Agreed.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Agreed.
iii	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM. SO2 and NOx are anticipated in consultation with the APPCB. Data on ambient air quality and stack emissions shall be regularly submitted to the Ministry including its Regional Office at Bangalore and APPCB once in six months.	The industry installed Two Continuous Ambient Air Quality Stations at upwind and downwind directions. Online data uploaded to SPCB & CPCB sites. http://rtdms.cpcb.gov.in/industry-login Username: unit2environment@priyacement.com Password: Safety@444 https://appcb.glensserver.com/#/login Username: MRCL Password: Mrcl@456 And every month NABL certified third party Laboratory reports to APPCB-RO and HO. (Annexure V)
iv	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	No wastewater is generated in the industry. Equipment cooling water re-circulated into process.
v	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers,	Ambient noise level monitoring is carrying out at frequent intervals and found that the noise levels are under the prescribed norms.

	enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	And every month NABL certified third party Laboratory monitoring & reports to APPCB-RO and APPCB-HO. (Annexure V)
vi	Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance programmes shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis test once in six months.	To improve housekeeping, all internal roads are concreted and 3 nos. of mechanized road sweepers utilizing to avoid fugitive dust emissions. 10 beds hospital also provided, qualified doctors are appointed for regular health checkup and followed recommendation.
vii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	Following.
viii	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Environment Manager & All HODs are members of the Environment Management Cell and directly reporting to Plant Head.
ix	As mentioned in the EIA/EMP, Rs. 75.00 Crores earmarked towards the environmental pollution control measures shall be judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The implementation schedule for all the conditions stipulated herein shall be submitted to the Regional Office at Bangalore. The funds so provided should not be diverted for any other purpose.	Bag filters and ESPs are provided to main stacks and unit dust collectors are provided at all transfer points as a part of pollution control measure to avoid dust emissions.
x	The Regional Office of the Ministry at Chennai/Central Pollution Control Board/A.P. Pollution Control Board shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Being Submitted Regularly.
xi	The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied.
xii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APPCB/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Complied.



Central Pollution Control Board

SPCB Regional Office

APPCB

Industry Representatives

Rain Cement Limited unit II(02TS278)

Cement

Boincheruvupalli (Village) ,Kurnool ,Andhra Pradesh ,518 220, Boincheruvupalli Andhra Pradesh PIN - 518 220

Station: 8


Stack_1_Raw_Mill_Line_1

(Station out of operation)

PM

N/A
mg/Nm³

Shutdown Reasons : Dear Sir, We would like to inform you that, Line-I Kiln RABH Stack Sox & Nox Analyzer is not working due to plant shutdown due to market demands (since 16/11/2022 to till date ANUBABU 7815957493

mg/Nm³
Prescribed Standard
[View Diagnostics](#) [View Data](#)
SO₂N/A
mg/Nm³
No Diagnostic N/A
Diagnostic Status Time

[View Diagnostics](#) [View Data](#)

NOX

N/A
mg/Nm³
No Diagnostic N/A
Diagnostic Status Time

[View Diagnostics](#) [View Data](#)
Stack_Coal Mill
1

(Station out of operation)

PM

N/A
mg/Nm³
No Diagnostic N/A
Diagnostic Status Time
30 mg/Nm³
Prescribed Standard
[View Diagnostics](#) [View Data](#)



Central Pollution Control Board

SPCB Regional Office ^

APPCB

Industry Representatives ^

Rain Cement Limited unit II(02TS278) Cement

Boincheruvupalli (Village) ,Kurnool ,Andhra Pradesh ,518 220, Boincheruvupalli Andhra Pradesh PIN - 518 220

Station: 8



Stack_6_Raw_Mill_Line_2

NOX	350.7 mg/Nm³	Diagnostic Status	May 29, 2023 4:15:00 PM Time		
				View Diagnostics	View Data
PM	5.6 mg/Nm³	Diagnostic Status	May 29, 2023 4:15:00 PM Time	30 mg/Nm³ Prescribed Standard	
				View Diagnostics	View Data
SO2	2.2 mg/Nm³	Diagnostic Status	May 29, 2023 4:15:00 PM Time		
				View Diagnostics	View Data

Stack_Coal Mill 2

PM	0 mg/Nm³	Diagnostic Status	May 29, 2023 4:15:00 PM Time	30 mg/Nm³ Prescribed Standard	
				View Diagnostics	View Data

Stack_Cement Mill 2

PM	7.5 mg/Nm³	Diagnostic Status	May 29, 2023 4:15:00 PM Time	30 mg/Nm³ Prescribed Standard	
				View Diagnostics	View Data

Kiln_RABH_1



NA mg/Nm3
Kiln_RABH_1 - PM
15 MinsAvg: NA mg/Nm3
Limit: 0 - 30 mg/Nm3
Range: 0 - 1000

Kiln_RABH_2



6.945 mg/Nm3
Kiln_RABH_2 - PM
15 MinsAvg: 6.787 mg/Nm3
Limit: 0 - 30 mg/Nm3
Range: 0 - 1000

RABH_STACK_1



NA mg/Nm3
RABH_STACK_1 - NOx
15 MinsAvg: NA mg/Nm3
Limit: 0 - 800 mg/Nm3
Range: 0 - 1000



NA mg/Nm3
RABH_STACK_1 - SO2
15 MinsAvg: NA mg/Nm3
Limit: 0 - 100 mg/Nm3
Range: 0 - 1000

RABH_STACK_2



532.37 mg/Nm3
RABH_STACK_2 - NOx
15 MinsAvg: 545.928 mg/Nm3
Limit: 0 - 800.0 mg/Nm3
Range: 0 - 1000



2.11 mg/Nm3
RABH_STACK_2 - SO2
15 MinsAvg: 2.392 mg/Nm3
Limit: 0 - 100.0 mg/Nm3
Range: 0 - 1000

Beside_Gate



6.0 ug/m3
Beside_Gate - PM2.5
15 MinsAvg: 6.0 ug/m3
Limit: 0 - 60.0 ug/m3
Range: 0 - 1000



8.0 ug/m3
Beside_Gate - PM10
15 MinsAvg: 8.0 ug/m3
Limit: 0 - 100.0 ug/m3
Range: 0 - 1000

Main_Gate



5.1 ug/m3
Main_Gate - PM2.5
15 MinsAvg: 4.8 ug/m3
Limit: 0 - 60.0 ug/m3
Range: 0 - 1000



8.5 ug/m3
Main_Gate - PM10
15 MinsAvg: 8.0 ug/m3
Limit: 0 - 100.0 ug/m3
Range: 0 - 1000

[← Site Status List](#) / [Real Time Report](#) / [Trends](#)

Rain Cement Limited

Peapully , Andhra Pradesh

CEMENT

Refresh

Data Last Received On
30, May, 2023

Configuration Updated On
01, January, 2017

Calibration at
01, January, 2018

CEMS
10

EQM
S
0

AAQ
MS
2

Total Stations
12

Live Readings

Help

Emission

Effluent

Ambient

All

Cement_Mill_1

0.01 mg/Nm3

Cement_Mill_1 - PM

15 MinsAvg: 0.002 mg/Nm3

Limit: 0 - 30 mg/Nm3

Range: 0 - 1000

Cement_Mill_2

7.29 mg/Nm3

Cement_Mill_2 - PM

15 MinsAvg: 7.103 mg/Nm3

Limit: 0 - 30 mg/Nm3

Range: 0 - 1000

CoalMill_1

NA mg/Nm3

CoalMill_1 - PM

15 MinsAvg: NA mg/Nm3

Limit: 0 - 30 mg/Nm3

Range: 0 - 1000

CoalMill_2

0.0 mg/Nm3

CoalMill_2 - PM

15 MinsAvg: 0.0 mg/Nm3

Limit: 0 - 30 mg/Nm3

Range: 0 - 1000

Cooler_1

NA mg/Nm3

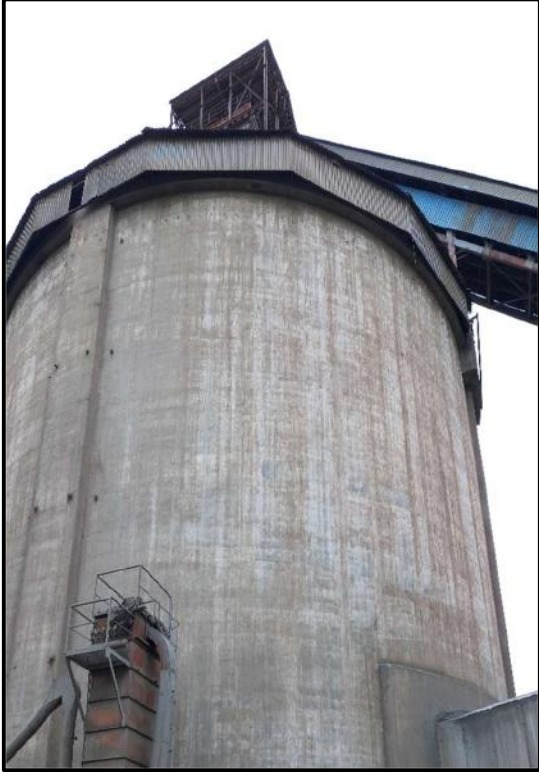
Cooler_1 - PM

15 MinsAvg: NA mg/Nm3



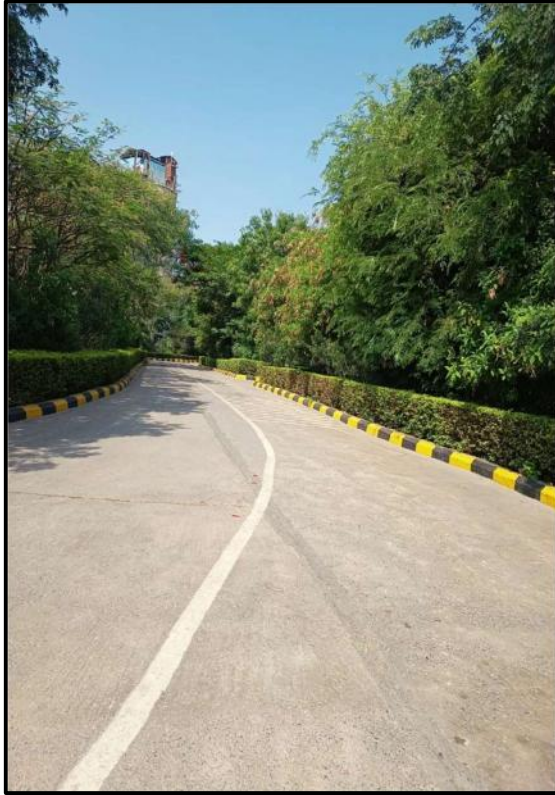
















REF.NO: GEL/RCL/119/AAQ/2022-120

Date: 25-10-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	17-10-2022	24 hr.	47	06	09	25	BDL
2.	Near Security	17-10-2022	24 hr.	58	10	14	34	BDL
3.	Near Lab	17-10-2022	24 hr.	63	09	13	36	BDL
4.	Near Mines Office	18-10-2022	24 hr.	54	05	09	30	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23-2006 (RA-2017)	IS: 5182 Part 2-2001 (RA-2017)	IS: 5182 Part 6-2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

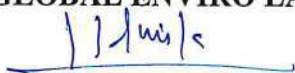
CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

for **GLOBAL ENVIRO LABS**



AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/AAQ/2022-121

Date: 25-10-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	18-10-2022	24 hr.	64	09	14	35	BDL
2.	Near Loading Point	18-10-2022	24 hr.	69	11	16	37	BDL
3.	Near Magazine Point	19-10-2022	24 hr.	43	06	10	25	BDL
4.	Near Haul Road	19-10-2022	24 hr.	67	08	12	36	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

for **GLOBAL ENVIRO LABS**

[Signature]

AUTHORISED SIGNATORY



ISO 9001:2015
ISO 45001:2018

GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

2-2-1075/14/A/1, 1st Floor, Tilaknagar 'X' Road, Bagh Amberpet,
Hyderabad - 500 013. Ph : 27407969

E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RCL/119/STM/2022-122

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).

Sample Particulars	: Stack attached to	I	II	III
Date of sampling	:	19-10-2022	19-10-2022	19-10-2022
Time of monitoring	:	08:30 a.m.	09:00 a.m.	09:30 a.m.
1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec):	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	---	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
Concentration (mg/N m ³)					
8. Sulphur dioxide	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
Concentration (mg/N m ³)					
9. Oxides of nitrogen	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
Concentration (mg/N m ³)					

10. A.P.P.C.B Limits	(SPM)	30	30	30
11. A.P.P.C.B Limits	(SO ₂)	100	--	--
12. A.P.P.C.B Limits	(NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. I : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

for GLOBAL ENVIRO LABS

[Signature]

AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/STM/2022-123

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	18-10-2022	19-10-2022	17-10-2022
Time of monitoring	:	08:50 a.m.	12:30 p.m.	03:00 p.m.

1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	68	81	110
4. Exit velocity of flue gases (m/sec)	:	6.21	8.90	13.87
5. Flow rate (m ³ /hr)	:	39,347	56,390	5,50,750
6. Flow rate (Nm ³ /hr)	:	34,515	47,788	4,26,938

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	08	05	09	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	06	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	521	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. IV : Attached to Cement Mill Line – 1**

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

for GLOBAL ENVIRO LABS


AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/STM/2022-124

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling		17-10-2022	19-10-2022	18-10-2022
Time of monitoring		05:00 p.m.	10:10 a.m.	04:10 p.m.

1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	63	103	90
4. Exit velocity of flue gases (m/sec):	:	12.61	10.81	7.92
5. Flow rate (m ³ /hr)	:	62,056	3,02,766	72,420
6. Flow rate (Nm ³ /hr)	:	54,917	2,40,291	59,852

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	12	19	07	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)		30	30	30
----------------------------	--	----	----	----

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. VII : Attached to Coal Mill Line - 2**

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

for GLOBAL ENVIRO LABS


AUTHORISED SIGNATORY



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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RCL/119/STM/2022-125

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-10-2022
Time of monitoring : 10:50 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) :
4. Exit velocity of flue gases (m/sec) :
5. Flow rate (cum/hr) :
6. Flow rate (Nm³ /hr) :

EMISSION DATA

7. Suspended particulate matter :
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2 (Not in operation)

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Accredited by :



REF.NO: GEL/RCL/119/STM/2022-126

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-10-2022
Time of monitoring : 12:20 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 40
4. Exit velocity of flue gases (m/sec) : 9.72
5. Flow rate (cum/hr) : 17,566
6. Flow rate (Nm³ /hr) : 16,730

EMISSION DATA

7. Suspended particulate matter : 09
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

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REF.NO: GEL/RCL/119/STM/2022-127

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-10-2022
Time of monitoring : 02:10 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 45
4. Exit velocity of flue gases (m/sec) : 9.52
5. Flow rate (cum/hr) : 17,205
6. Flow rate (Nm³ /hr) : 16,231

EMISSION DATA

7. Suspended particulate matter : 15
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X : Attached to Packing Plant Packer- 03 - Line – 2**
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REF.NO: GEL/RCL/119/STM/2022-128

Date: 25-10-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set **(Not in Operation)**
Date of sampling : 18-10-2022
Time of monitoring : 03:30 p.m.

1. Stack diameter (m) : 0.25
2. Stack cross sectional area (sq m) : 0.049
3. Flue gas temperature (°C) : --
4. Exit velocity of flue gases (m/sec) : --
5. Flow rate (cum/hr) : --

EMISSION DATA

	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is not in Operation

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Stack No. XI

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REF.NO: GEL/RCL/119/NQD/2022-129

Date: 25-10-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 19-10-2022		
S. No:	Locations		Noise Levels in dB (A)
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	70.3
		Left Side	68.9
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	66.8
		Left Side	64.3
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	69.1
		Left Side	66.8
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	68.2
		Left Side	66.4

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2022-130

Date: 25-10-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Date of Monitoring: 19-10-2022

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	61	58
2. Near School	43	39
3. Near C.C.R.	67	62
4. Near Raw Mill	69	64
5. Near Cement Mill	68	65
6. Near Crusher	72	69
7. Near Mines Office	66	62
8. Near Security Office	54	51

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-131

Date: 25-10-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 19-10-2022			
Date of analysis	: 20-10-2022			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.57	7.39	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 682	598	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 67	14	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 238	78	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 79	18	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.62	0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

for GLOBAL ENVIRO LABS


AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/WA/2022-132

Date: 25-10-2022

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sample Particulars : R.O.Inlet
Date of collection : 19-10-2022
Date of Analysis : 20-10-2022

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.53	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 642	--
4. Dissolved Solids (mg/l)	: 449	500
5. Total Hardness (mg/l)	: 147	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 152	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as CaCO ₃ (mg/l)	: 98	75
10. Magnesium as CaCO ₃ (mg/l)	: 49	30
11. Sodium as Na (mg/l)	: 16	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 21	250
14. Sulphate as SO ₄ (mg/l)	: 08	200
15. Nitrate as NO ₃ (mg/l)	: 03	45
16. Fluorides as F (mg/l)	: 0.69	1.00
17. Silica as SiO ₂ (mg/l)	: 0.32	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.73	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WA/2022-133

Date: 25-10-2022

WATER ANALYSIS

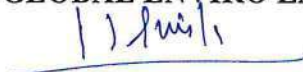
Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),**
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 19-10-2022
Date of Analysis : 20-10-2022

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.13	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 378	--
4. Dissolved Solids (mg/l)	: 265	500
5. Total Hardness (mg/l)	: 48	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 52	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as CaCO ₃ (mg/l)	: 39	75
10. Magnesium as CaCO ₃ (mg/l)	: 09	30
11. Sodium as Na (mg/l)	: 19	--
12. Potassium as K (mg/l)	: 0.37	--
13. Chloride as Cl (mg/l)	: 23	250
14. Sulphate as SO ₄ (mg/l)	: 12	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.29	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.18	5.0

for GLOBAL ENVIRO LABS


AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/WWA/2022-134

Date: 25-10-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 19-10-2022		
Date of Analysis	: 20-10-2022		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.59	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 748	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 12	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 65	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 14	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.13	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-135

Date: 25-10-2022

WASTEWATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sample Particulars	:	Boiler Blowdown water - PH		
Date of collection	:	19-10-2022		
Date of Analysis	:	20-10-2022	Limits	Method Used
1. pH	:	7.63	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	82	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	04	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	18	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	03	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-136

Date: 25-10-2022

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	19-10-2022		
Date of Analysis	:	20-10-2022	Limits	Method Used
1. pH	:	7.70	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	32	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	02	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	21	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2022-137

Date: 26-11-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	17-11-2022	24 hr.	45	05	08	26	BDL
2.	Near Security	17-11-2022	24 hr.	53	09	13	32	BDL
3.	Near Lab	17-11-2022	24 hr.	59	08	11	34	BDL
4.	Near Mines Office	18-11-2022	24 hr.	51	04	07	27	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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2-2-1075/14/A/1, 1st Floor, Tilaknagar 'X' Road, Bagh Amberpet,
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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2022-138

Date: 26-11-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	18-11-2022	24 hr.	59	10	14	33	BDL
2.	Near Loading Point	18-11-2022	24 hr.	62	12	16	35	BDL
3.	Near Magazine Point	19-11-2022	24 hr.	45	05	08	26	BDL
4.	Near Haul Road	19-11-2022	24 hr.	65	09	13	37	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

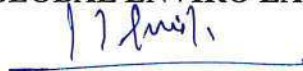
CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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REF.NO: GEL/RCL/119/STM/2022-139

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	I	II	III
Date of sampling	:	17-11-2022	17-11-2022	17-11-2022
Time of monitoring	:	08:20 a.m.	08:50 a.m.	09:20 a.m.

1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec)	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	---	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. I** : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

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REF.NO: GEL/RCL/119/STM/2022-140

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	17-11-2022	18-11-2022	19-11-2022
Time of monitoring	:	10:00 a.m.	08:30 p.m.	03:10 p.m.

1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	65	79	113
4. Exit velocity of flue gases (m/sec)	:	6.30	8.81	13.76
5. Flow rate (m ³ /hr)	:	39,917	55,820	5,46,382
6. Flow rate (Nm ³ /hr)	:	35,323	47,305	4,23,552

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	07	04	08	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	05	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	536	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. IV : Attached to Cement Mill Line – 1

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

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REF.NO: GEL/RCL/119/STM/2022-141

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling	:	19-11-2022	19-11-2022	17-11-2022
Time of monitoring	:	11:15 a.m.	09:30 a.m.	02:00 p.m.

1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	60	107	94
4. Exit velocity of flue gases (m/sec)	:	12.72	10.90	7.98
5. Flow rate (m ³ /hr)	:	62,598	3,05,287	72,969
6. Flow rate (Nm ³ /hr)	:	56,394	2,39,441	59,324

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	11	14	06	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. VII : Attached to Coal Mill Line - 2**

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

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REF.NO: GEL/RCL/119/STM/2022-142

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-11-2022
Time of monitoring : 10:20 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) :
4. Exit velocity of flue gases (m/sec) :
5. Flow rate (cum/hr) :
6. Flow rate (Nm³ /hr) :

EMISSION DATA

7. Suspended particulate matter :
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2 (Not in operation)

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REF.NO: GEL/RCL/119/STM/2022-143

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit - II
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-11-2022
Time of monitoring : 10:50 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 45
4. Exit velocity of flue gases (m/sec) : 9.81
5. Flow rate (cum/hr) : 17,729
6. Flow rate (Nm³ /hr) : 16,725

EMISSION DATA

7. Suspended particulate matter : 07
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

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REF.NO: GEL/RCL/119/STM/2022-144

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 18-11-2022
Time of monitoring : 03:00 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 42
4. Exit velocity of flue gases (m/sec) : 9.41
5. Flow rate (cum/hr) : 17,006
6. Flow rate (Nm³ /hr) : 16,196

EMISSION DATA

7. Suspended particulate matter : 10
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X** : Attached to Packing Plant Packer- 03 - Line – 2
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REF.NO: GEL/RCL/119/STM/2022-145

Date: 26-11-2022

STACK MONITORING DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit - II
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set (Not in Operation)
Date of sampling : 18-11-2022
Time of monitoring : 12:50 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: --	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	: --	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	: --	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is not in Operation
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023
Stack No. XI

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REF.NO: GEL/RCL/119/NQD/2022-146

Date: 26-11-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 19-11-2022		
S. No:	Locations		Noise Levels in dB (A)
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	71.2
		Left Side	69.4
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	65.6
		Left Side	63.8
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	69.9
		Left Side	67.5
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	68.9
		Left Side	65.8

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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REF.NO: GEL/RCL/119/NQD/2022-147

Date: 26-11-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Date of Monitoring: 19-11-2022

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	59	54
2. Near School	46	41
3. Near C.C.R.	68	64
4. Near Raw Mill	67	62
5. Near Cement Mill	69	66
6. Near Crusher	73	68
7. Near Mines Office	65	61
8. Near Security Office	56	52

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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REF.NO: GEL/RCL/119/WWA/2022-148

Date: 26-11-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 19-11-2022			
Date of analysis	: 21-11-2022			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.49	7.31	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 641	562	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 59	12	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 262	89	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 86	17	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.53	0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

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REF.NO: GEL/RCL/119/WA/2022-149

Date: 26-11-2022

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Inlet
Date of collection : 19-11-2022
Date of Analysis : 21-11-2022

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.63	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 621	--
4. Dissolved Solids (mg/l)	: 435	500
5. Total Hardness (mg/l)	: 139	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 143	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as CaCO ₃ (mg/l)	: 91	75
10. Magnesium as CaCO ₃ (mg/l)	: 48	30
11. Sodium as Na (mg/l)	: 12	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 17	250
14. Sulphate as SO ₄ (mg/l)	: 06	200
15. Nitrate as NO ₃ (mg/l)	: 02	45
16. Fluorides as F (mg/l)	: 0.68	1.00
17. Silica as SiO ₂ (mg/l)	: 0.35	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.70	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WA/2022-150

Date: 26-11-2022

WATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	: R.O.Outlet		
Date of collection	: 19-11-2022		Desirable Potable Limits
Date of Analysis	: 21-11-2022		as per IS: 10500
1. Colour	: Colourless		Colourless
2. pH	: 7.07		6.5-8.5
3. Electrical Conductivity (micro mhos)	: 352		--
4. Dissolved Solids (mg/l)	: 246		500
5. Total Hardness (mg/l)	: 41		300
6. Phenolphthalein Alkalinity(mg/l)	: Nil		--
7. Methyl Orange Alkalinity (mg/l)	: 46		200
8. Non-Carbonate Hardness (mg/l)	: Nil		--
9. Calcium as CaCo ₃ (mg/l)	: 33		75
10. Magnesium as CaCo ₃ (mg/l)	: 08		30
11. Sodium as Na (mg/l)	: 15		--
12. Potassium as K (mg/l)	: 0.29		--
13. Chloride as Cl (mg/l)	: 19		250
14. Sulphate as SO ₄ (mg/l)	: 08		200
15. Nitrate as NO ₃ (mg/l)	: 04		45
16. Fluorides as F (mg/l)	: 0.28		1.00
17. Silica as SiO ₂ (mg/l)	: 0.1		--
18. Iron as Fe (mg/l)	: 0.01		1.0
19. Turbidity (NTU)	: 0.10		5.0

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Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-151

Date: 26-11-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 19-11-2022		
Date of Analysis	: 21-11-2022		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.67	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 792	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 14	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 61	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 13	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.15	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO: GEL/RCL/119/WWA/2022-152

Date: 26-11-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).
Sample Particulars	: Boiler Blowdown water - PH
Date of collection	: 19-11-2022
Date of Analysis	: 21-11-2022
	Limits
	Method Used
1. pH	: 7.51 5.5-9.0 IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 71 2100 IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 03 200 IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 15 250 IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 03 100 IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)	
6. Oil & Grease	: Nil 10 IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-153

Date: 26-11-2022

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	19-11-2022		
Date of Analysis	:	21-11-2022	Limits	Method Used
1. pH	:	7.61	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	36	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	02	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	23	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2022-154

Date: 27-12-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	19-12-2022	24 hr.	48	06	10	28	BDL
2.	Near Security	19-12-2022	24 hr.	56	10	13	31	BDL
3.	Near Lab	19-12-2022	24 hr.	61	08	12	33	BDL
4.	Near Mines Office	20-12-2022	24 hr.	46	05	08	25	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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REF.NO: GEL/RCL/119/AAQ/2022-155

Date: 27-12-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	20-12-2022	24 hr.	61	09	13	34	BDL
2.	Near Loading Point	20-12-2022	24 hr.	65	11	16	37	BDL
3.	Near Magazine Point	21-12-2022	24 hr.	47	06	09	24	BDL
4.	Near Haul Road	21-12-2022	24 hr.	68	08	12	35	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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Accredited by :



REF.NO: GEL/RCL/119/STM/2022-156

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	I	II	III
Date of sampling		19-12-2022	19-12-2022	19-12-2022
Time of monitoring		08:00 a.m.	08:30 a.m.	09:00 a.m.

1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec)	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	---	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. I : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

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Accredited by :



REF.NO: GEL/RCL/119/STM/2022-157

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).

Sample Particulars	: Stack attached to	IV	V	VI
Date of sampling	:	19-12-2022	19-12-2022	20-12-2022
Time of monitoring	:	02:40 p.m.	09:30 a.m.	11:00 a.m.
1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	68	75	110
4. Exit velocity of flue gases (m/sec):		6.21	8.72	13.85
5. Flow rate (m ³ /hr)	:	39,347	55,250	5,49,956
6. Flow rate (Nm ³ /hr)	:	34,515	47,222	4,26,322

EMISSION DATA

Method Used

7. Suspended particulate matter	:	08	05	07	IS: 11255 (Part-I), 1985 (RA-2019)
Concentration (mg/N m ³)					
8. Sulphur dioxide	:	--	--	04	IS: 11255 (Part-II), 1985 (RA-2019)
Concentration (mg/N m ³)					
9. Oxides of nitrogen	:	--	--	549	IS: 11255 (P-7), 2005 (RA-2017)
Concentration (mg/N m ³)					
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. IV : Attached to Cement Mill Line – 1

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

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REF.NO: GEL/RCL/119/STM/2022-158

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling	:	20-12-2022	20-12-2022	19-12-2022
Time of monitoring	:	02:30 p.m.	09:00 a.m.	11:00 a.m.
1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	63	103	91
4. Exit velocity of flue gases (m/sec):	:	12.81	10.98	7.87
5. Flow rate (m ³ /hr)	:	63,041	3,07,528	71,963
6. Flow rate (Nm ³ /hr)	:	57,788	2,44,070	58,986

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	09	12	07	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)	:	30	30	30	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. VII : Attached to Coal Mill Line - 2**

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

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REF.NO: GEL/RCL/119/STM/2022-159

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 21-12-2022
Time of monitoring : 10:00 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 42
4. Exit velocity of flue gases (m/sec) : 9.34
5. Flow rate (cum/hr) : 16,879
6. Flow rate (Nm³ /hr) : 15,924

EMISSION DATA

7. Suspended particulate matter : 08
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2**

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REF.NO: GEL/RCL/119/STM/2022-160

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 21-12-2022
Time of monitoring : 12:00 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : --
4. Exit velocity of flue gases (m/sec) : --
5. Flow rate (cum/hr) : --
6. Flow rate (Nm³ /hr) : --

EMISSION DATA


7. Suspended particulate matter : --
Concentration (mg/N m³)
8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X** : Attached to Packing Plant Packer- 02 - Line – 2 (Not in Operation)

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REF.NO: GEL/RCL/119/STM/2022-161

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 21-12-2022
Time of monitoring : 03:00 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 46
4. Exit velocity of flue gases (m/sec) : 9.32
5. Flow rate (cum/hr) : 16,843
6. Flow rate (Nm³ /hr) : 15,741

EMISSION DATA

7. Suspended particulate matter : 09
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 03 - Line – 2
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Accredited by :



REF.NO: GEL/RCL/119/STM/2022-162

Date: 27-12-2022

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set **(Not in Operation)**
Date of sampling : 21-12-2022
Time of monitoring : 04:40 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA

Limits

Method Used

6. Suspended particulate matter Concentration (mg/N m ³)	:	--	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	:	--	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	:	--	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is not in Operation

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Stack No. XI

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2022-163

Date: 27-12-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry		: M/s. RAIN CEMENTS LIMITED – Unit – II,	
Address		: Boinacherupally (V), Peapully (M), Nandyal (Dist).	
Date of Monitoring		: 21-12-2022	
S. No:	Locations	Noise Levels in dB (A)	
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	70.9
		Left Side	69.2
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	65.8
		Left Side	63.2
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	69.3
		Left Side	67.9
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	68.4
		Left Side	65.2

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2022-164

Date: 27-12-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),**
Nandyal (Dist).

Date of Monitoring: 21-12-2022

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	57	53
2. Near School	45	40
3. Near C.C.R.	69	66
4. Near Raw Mill	66	63
5. Near Cement Mill	70	67
6. Near Crusher	72	69
7. Near Mines Office	67	63
8. Near Security Office	54	51

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for **GLOBAL ENVIRO LABS**


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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-165

Date: 27-12-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 21-12-2022			
Date of analysis	: 22-12-2022			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.41	7.24	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 631	590	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 52	10	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 298	98	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 104	21	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.49	0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

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Accredited by :



REF.NO: GEL/RCL/119/WA/2022-166

Date: 27-12-2022

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Inlet
Date of collection : 21-12-2022
Date of Analysis : 22-12-2022

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.52	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 657	--
4. Dissolved Solids (mg/l)	: 460	500
5. Total Hardness (mg/l)	: 154	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 159	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as CaCO ₃ (mg/l)	: 103	75
10. Magnesium as CaCO ₃ (mg/l)	: 51	30
11. Sodium as Na (mg/l)	: 16	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 21	250
14. Sulphate as SO ₄ (mg/l)	: 09	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.69	1.00
17. Silica as SiO ₂ (mg/l)	: 0.41	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.79	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WA/2022-167

Date: 27-12-2022

WATER ANALYSIS

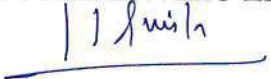
Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),**
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 21-12-2022
Date of Analysis : 22-12-2022

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.12	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 302	--
4. Dissolved Solids (mg/l)	: 211	500
5. Total Hardness (mg/l)	: 35	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 41	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as CaCO ₃ (mg/l)	: 28	75
10. Magnesium as CaCO ₃ (mg/l)	: 07	30
11. Sodium as Na (mg/l)	: 11	--
12. Potassium as K (mg/l)	: 0.23	--
13. Chloride as Cl (mg/l)	: 13	250
14. Sulphate as SO ₄ (mg/l)	: 05	200
15. Nitrate as NO ₃ (mg/l)	: 03	45
16. Fluorides as F (mg/l)	: 0.27	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.10	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-168

Date: 27-12-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 21-12-2022		
Date of Analysis	: 22-12-2022		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.78	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 756	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 12	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 72	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 16	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.12	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-169

Date: 27-12-2022

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Sample Particulars	:	Boiler Blowdown water - PH		
Date of collection	:	21-12-2022		
Date of Analysis	:	22-12-2022	Limits	Method Used
1. pH	:	7.59	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	74	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	05	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	21	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	05	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2022-170

Date: 27-12-2022

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	21-12-2022		
Date of Analysis	:	22-12-2022	Limits	Method Used
1. pH	:	7.68	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	39	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	04	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	21	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-171

Date: 28-01-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	19-01-2023	24 hr.	42	05	08	24	BDL
2.	Near Security	19-01-2023	24 hr.	59	09	14	33	BDL
3.	Near Lab	19-01-2023	24 hr.	52	07	10	30	BDL
4.	Near Mines Office	20-01-2023	24 hr.	48	04	07	25	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23-2006 (RA-2017)	IS: 5182 Part 2-2001 (RA-2017)	IS: 5182 Part 6-2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

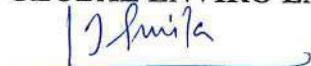
Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009
Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2023
Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2023
Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023
Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023
Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023
Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023
Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023
Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)
PM_{2.5} : Particulate Matter (size less than 2.5µm)
CO : Carbon Monoxide

SO₂ : Sulphur Dioxide
NO_x : Oxides of Nitrogen
BDL : Below Detectible Limit

for **GLOBAL ENVIRO LABS**


AUTHORISED SIGNATORY



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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-172

Date: 28-01-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	20-01-2023	24 hr.	59	08	12	32	BDL
2.	Near Loading Point	20-01-2023	24 hr.	67	11	15	35	BDL
3.	Near Magazine Point	21-01-2023	24 hr.	49	06	10	26	BDL
4.	Near Haul Road	21-01-2023	24 hr.	62	10	13	34	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-173

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	I	II	III
Date of sampling		21-01-2023	21-01-2023	21-01-2023
Time of monitoring		11:10 a.m.	11:40 a.m.	12:10 p.m.

1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec):	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	--	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. I** : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-174

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	21-01-2023	20-01-2023	19-01-2023
Time of monitoring	:	12:40 p.m.	09:00 a.m.	11:40 a.m.
1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	--	78	114
4. Exit velocity of flue gases (m/sec):	--		8.61	13.74
5. Flow rate (m ³ /hr)	:	--	54,553	5,45,588
6. Flow rate (Nm ³ /hr)	:	--	46,626	4,22,936

EMISSION DATA

Method Used

7. Suspended particulate matter	:	--	07	09	IS: 11255 (Part-I), 1985 (RA-2019)
Concentration (mg/N m ³)					
8. Sulphur dioxide	:	--	--	05	IS: 11255 (Part-II), 1985 (RA-2019)
Concentration (mg/N m ³)					
9. Oxides of nitrogen	:	--	--	568	IS: 11255 (P-7), 2005 (RA-2017)
Concentration (mg/N m ³)					
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. IV : Attached to Cement Mill Line – 1 (Not in operation)**

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-175

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling	:	19-01-2023	19-01-2023	21-01-2023
Time of monitoring	:	02:00 p.m.	09:30 a.m.	09:00 a.m.
1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	67	107	95
4. Exit velocity of flue gases (m/sec)	:	12.72	10.87	7.96
5. Flow rate (m ³ /hr)	:	62,598	3,04,447	72,786
6. Flow rate (Nm ³ /hr)	:	54,910	2,39,722	59,176

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	08	13	05	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)	:	30	30	30	

Note: All the values are within the limits prescribed by APPCB.

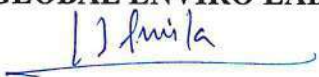
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. VII : Attached to Coal Mill Line - 2**

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

for GLOBAL ENVIRO LABS


AUTHORISED SIGNATORY



ISO 9001:2015
ISO 45001:2018

GLOBAL ENVIRO LABS

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RCL/119/STM/2023-176

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 20-01-2023
Time of monitoring : 10:40 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : --
4. Exit velocity of flue gases (m/sec) : --
5. Flow rate (cum/hr) : --
6. Flow rate (Nm³ /hr) : --

EMISSION DATA

7. Suspended particulate matter : --
Concentration (mg/N m³)
8. A.P.P.C.B Limits (SPM) : 30

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2 (Not in Operation)

for GLOBAL ENVIRO LABS

AUTHORISED SIGNATORY



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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-177

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 21-12-2022
Time of monitoring : 11:10 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 42
4. Exit velocity of flue gases (m/sec) : 9.72
5. Flow rate (cum/hr) : 17,566
6. Flow rate (Nm³ /hr) : 16,730

EMISSION DATA

7. Suspended particulate matter : 06
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-178

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit - II
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 20-01-2023
Time of monitoring : 03:10 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 49
4. Exit velocity of flue gases (m/sec) : 9.41
5. Flow rate (cum/hr) : 17,006
6. Flow rate (Nm³ /hr) : 15,746

EMISSION DATA

7. Suspended particulate matter : 08
Concentration (mg/N m³)
8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 03 - Line – 2
for GLOBAL ENVIRO LABS

11/1/2023

AUTHORISED SIGNATORY



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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-179

Date: 28-01-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set (Not in Operation)
Date of sampling : 21-12-2022
Time of monitoring : 01:20 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA

		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: --	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	: --	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	: --	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is not in Operation
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023
Stack No. XI

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2023-180

Date: 28-01-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry Address	: M/s. RAIN CEMENTS LIMITED – Unit – II, : Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 21-01-2023		
S. No:	Locations	Noise Levels in dB (A)	
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	70.1
		Left Side	69.5
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	66.2
		Left Side	64.8
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	68.2
		Left Side	67.1
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	67.5
		Left Side	65.9

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for GLOBAL ENVIRO LABS

AUTHORISED SIGNATORY



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GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2023-181

Date: 28-01-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),**
Nandyal (Dist).

Date of Monitoring: 21-01-2023

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	56	52
2. Near School	51	42
3. Near C.C.R.	68	64
4. Near Raw Mill	65	61
5. Near Cement Mill	71	67
6. Near Crusher	73	68
7. Near Mines Office	65	60
8. Near Security Office	59	54

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for **GLOBAL ENVIRO LABS**

AUTHORISED SIGNATORY



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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-182

Date: 28-01-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 21-01-2023			
Date of analysis	: 23-01-2023			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.49	7.32	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 684	628	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 56	12	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 326	103	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 113	24	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.57	0.12	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

for GLOBAL ENVIRO LABS


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Accredited by :



REF.NO: GEL/RCL/119/WA/2023-183

Date: 28-01-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sample Particulars : **R.O.Inlet**
Date of collection : **21-01-2023**
Date of Analysis : **23-01-2023**

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.59	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 682	--
4. Dissolved Solids (mg/l)	: 477	500
5. Total Hardness (mg/l)	: 163	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 169	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 47.2	75
10. Magnesium as Mg (mg/l)	: 10.9	30
11. Sodium as Na (mg/l)	: 19	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 23	250
14. Sulphate as SO ₄ (mg/l)	: 10	200
15. Nitrate as NO ₃ (mg/l)	: 06	45
16. Fluorides as F (mg/l)	: 0.70	1.00
17. Silica as SiO ₂ (mg/l)	: 0.46	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.87	5.0

for **GLOBAL ENVIRO LABS**

AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/WA/2023-184

Date: 28-01-2023

WATER ANALYSIS

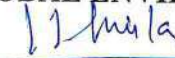
Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 21-01-2023
Date of Analysis : 23-01-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.10	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 321	--
4. Dissolved Solids (mg/l)	: 225	500
5. Total Hardness (mg/l)	: 42	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 46	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 12.8	75
10. Magnesium as Mg (mg/l)	: 2.4	30
11. Sodium as Na (mg/l)	: 16	--
12. Potassium as K (mg/l)	: 0.34	--
13. Chloride as Cl (mg/l)	: 18	250
14. Sulphate as SO ₄ (mg/l)	: 09	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.28	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.19	5.0

for GLOBAL ENVIRO LABS


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REF.NO: GEL/RCL/119/WWA/2023-185

Date: 28-01-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 21-01-2023		
Date of Analysis	: 23-01-2023		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.69	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 702	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 08	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 67	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 14	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

for GLOBAL ENVIRO LABS

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REF.NO: GEL/RCL/119/WWA/2023-186

Date: 28-01-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).
Sample Particulars	: Boiler Blowdown water - PH
Date of collection	: 21-01-2023
Date of Analysis	: 23-01-2023
	Limits
	Method Used
1. pH	: 7.51 5.5-9.0 IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 63 2100 IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 04 200 IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 18 250 IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 04 100 IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)	
6. Oil & Grease	: Nil 10 IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

for GLOBAL ENVIRO LABS

AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/WWA/2023-187

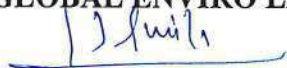
Date: 28-01-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	21-01-2023		
Date of Analysis	:	23-01-2023	Limits	Method Used
1. pH	:	7.62	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	46	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	05	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	21	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	05	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-188

Date: 01-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	21-02-2023	24 hr.	46	04	09	25	BDL
2.	Near Security	21-02-2023	24 hr.	57	08	12	31	BDL
3.	Near Lab	21-02-2023	24 hr.	54	06	11	29	BDL
4.	Near Mines Office	22-02-2023	24 hr.	50	07	10	26	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23-2006 (RA-2017)	IS: 5182 Part 2-2001 (RA-2017)	IS: 5182 Part 6-2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectable Limit

for **GLOBAL ENVIRO LABS**

AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/AAQ/2023-189

Date: 01-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	22-02-2023	24 hr.	62	10	13	33	BDL
2.	Near Loading Point	22-01-2023	24 hr.	71	12	16	37	BDL
3.	Near Magazine Point	23-02-2023	24 hr.	45	04	07	24	BDL
4.	Near Haul Road	23-02-2023	24 hr.	65	09	13	35	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

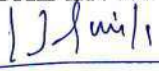
CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

for **GLOBAL ENVIRO LABS**


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ISO 9001:2015
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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-190

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to	I	II	III
Date of sampling :	21-02-2023	21-02-2023	21-02-2023
Time of monitoring :	08:00 a.m.	08:30 a.m.	09:00 a.m.

1. Stack diameter (m)	: 3.20	2.50	1.00
2. Stack cross sectional area (sq m)	: 8.04	4.91	0.785
3. Flue gas temperature (°C)	: ---	---	---
4. Exit velocity of flue gases (m/sec):	: ---	---	---
5. Flow rate (m ³ /hr)	: ---	---	---
6. Flow rate (Nm ³ /hr)	: --	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	: --	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	: --	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	: --	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. I : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

for GLOBAL ENVIRO LABS

[Signature]

AUTHORISED SIGNATORY

REF.NO: GEL/RCL/119/STM/2023-191

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	21-02-2023	22-02-2023	21-02-2023
Time of monitoring	:	02:30 p.m.	11:00 a.m.	11:30 a.m.

1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	71	82	110
4. Exit velocity of flue gases (m/sec)	:	6.30	8.52	13.63
5. Flow rate (m ³ /hr)	:	39,917	53,983	5,41,220
6. Flow rate (Nm ³ /hr)	:	34,710	45,364	4,22,828

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	09	06	08	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	04	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	547	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. IV : Attached to Cement Mill Line – 1**

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

for GLOBAL ENVIRO LABS


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ISO 9001:2015
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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-192

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling :		22-02-2023	21-02-2023	22-02-2023
Time of monitoring :		09:30 a.m.	09:35 a.m.	02:30 p.m.
1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	64	104	98
4. Exit velocity of flue gases (m/sec):		12.63	10.96	7.85
5. Flow rate (m ³ /hr)	:	62,155	3,06,968	71,780
6. Flow rate (Nm ³ /hr)	:	55,004	2,41,707	57,887

EMISSION DATA

Method Used

7. Suspended particulate matter	:	07	11	04	IS: 11255 (Part-I), 1985 (RA-2019)
Concentration (mg/N m ³)					
8. Sulphur dioxide	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
Concentration (mg/N m ³)					
9. Oxides of nitrogen	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
Concentration (mg/N m ³)					
10. A.P.P.C.B Limits (SPM)		30	30	30	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. VII : Attached to Coal Mill Line - 2**

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

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REF.NO: GEL/RCL/119/STM/2023-193

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-02-2023
Time of monitoring : 09:30 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 45
4. Exit velocity of flue gases (m/sec) : 9.23
5. Flow rate (cum/hr) : 16,680
6. Flow rate (Nm³ /hr) : 15,736

EMISSION DATA

7. Suspended particulate matter : 07
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2**

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REF.NO: GEL/RCL/119/STM/2023-194

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-02-2023
Time of monitoring : 11:30 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 40
4. Exit velocity of flue gases (m/sec) : 9.81
5. Flow rate (cum/hr) : 17,729
6. Flow rate (Nm³ /hr) : 16,884

EMISSION DATA

7. Suspended particulate matter : 05
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

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REF.NO: GEL/RCL/119/STM/2023-195

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-02-2023
Time of monitoring : 01:30 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : --
4. Exit velocity of flue gases (m/sec) : --
5. Flow rate (cum/hr) : --
6. Flow rate (Nm³ /hr) : --

EMISSION DATA

7. Suspended particulate matter : --
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 03 - Line - 2 (Not in Operation)
for GLOBAL ENVIRO LABS

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REF.NO: GEL/RCL/119/STM/2023-196

Date: 01-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set **(Not in Operation)**
Date of sampling : 23-02-2023
Time of monitoring : 02:00 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: --	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	: --	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	: --	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is **not in Operation**

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Stack No. XI

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REF.NO: GEL/RCL/119/NQD/2023-197

Date: 01-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 23-02-2023		
S. No:	Locations		Noise Levels in dB (A)
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	69.7
		Left Side	69.3
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	65.4
		Left Side	64.1
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	67.3
		Left Side	67.9
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	68.2
		Left Side	66.4

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2023-198

Date: 01-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit – II,
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Date of Monitoring: 23-02-2023

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	54	51
2. Near School	48	40
3. Near C.C.R.	66	62
4. Near Raw Mill	67	63
5. Near Cement Mill	70	66
6. Near Crusher	72	69
7. Near Mines Office	63	57
8. Near Security Office	56	51

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

for GLOBAL ENVIRO LABS

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REF.NO: GEL/RCL/119/WWA/2023-199

Date: 01-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 23-02-2023			
Date of analysis	: 24-02-2023			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.41	7.23	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 642	591	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 58	14	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 368	116	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 128	25	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.49	0.15	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

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Accredited by :



REF.NO: GEL/RCL/119/WA/2023-200

Date: 01-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Inlet
Date of collection : 23-02-2023
Date of Analysis : 24-02-2023

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.51	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 656	--
4. Dissolved Solids (mg/l)	: 459	500
5. Total Hardness (mg/l)	: 152	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 157	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 43.6	75
10. Magnesium as Mg (mg/l)	: 10.4	30
11. Sodium as Na (mg/l)	: 12	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 16	250
14. Sulphate as SO ₄ (mg/l)	: 07	200
15. Nitrate as NO ₃ (mg/l)	: 04	45
16. Fluorides as F (mg/l)	: 0.69	1.00
17. Silica as SiO ₂ (mg/l)	: 0.43	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.72	5.0

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REF.NO: GEL/RCL/119/WA/2023-201

Date: 01-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 23-02-2023
Date of Analysis : 24-02-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.04	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 304	--
4. Dissolved Solids (mg/l)	: 213	500
5. Total Hardness (mg/l)	: 36	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 32	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 10.9	75
10. Magnesium as Mg (mg/l)	: 2.12	30
11. Sodium as Na (mg/l)	: 12	--
12. Potassium as K (mg/l)	: 0.26	--
13. Chloride as Cl (mg/l)	: 15	250
14. Sulphate as SO ₄ (mg/l)	: 07	200
15. Nitrate as NO ₃ (mg/l)	: 04	45
16. Fluorides as F (mg/l)	: 0.27	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.12	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-202

Date: 01-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 23-02-2023		
Date of Analysis	: 24-02-2023		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.62	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 684	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 06	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 71	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 16	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO: GEL/RCL/119/WWA/2023-203

Date: 01-03-2023

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - PH		
Date of collection	:	23-02-2023		
Date of Analysis	:	24-02-2023	Limits	Method Used
1. pH	:	7.49	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	76	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	05	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	21	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	06	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO: GEL/RCL/119/WWA/2023-204

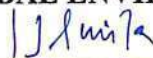
Date: 01-03-2023

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	23-02-2023		
Date of Analysis	:	24-02-2023	Limits	Method Used
1. pH	:	7.52	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	41	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	04	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	16	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RCL/119/2023

Date: 29-03-2023

To

Sri. C. Mallikarjuna Reddy

Chief General Manager – (Works)

M/s. RAIN CEMENTS LIMITED, Unit – II

Boinacherupally (V), Peapully (M),

Nandyal (Dist).

Ph. No: 7815957493 / 7815957491

Kind Attn: Sri. E Srinivasa Rao

Asst.General Manager - Quality Control

Sub:- Submission of Environmental Monitoring test reports – Reg.

Dear Sir,

This with reference to the above cited subjected: please find enclosed herewith 2 copies of Ambient Air Quality monitoring, Stack Emissions Monitoring, Noise Level Monitoring, Wastewater Analysis and Water Analysis Test Reports of your esteemed organization for the month of **March - 2023**. Kindly expedite our payment by cheque/DD at the earliest. Hope this will serve your purpose. If you need further information, do not hesitate to contact us.

Thanking you and assuring you of our best services at all times.

Yours faithfully,
for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-205

Date: 29-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	21-03-2023	24 hr.	50	06	10	27	BDL
2.	Near Security	21-03-2023	24 hr.	55	10	14	33	BDL
3.	Near Lab	21-03-2023	24 hr.	58	07	12	31	BDL
4.	Near Mines Office	22-03-2023	24 hr.	48	06	10	26	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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REF.NO: GEL/RCL/119/AAQ/2023-206

Date: 29-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	22-03-2023	24 hr.	65	11	14	34	BDL
2.	Near Loading Point	22-03-2023	24 hr.	69	09	16	36	BDL
3.	Near Magazine Point	23-03-2023	24 hr.	44	04	07	25	BDL
4.	Near Haul Road	23-03-2023	24 hr.	67	10	15	35	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2024

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

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REF.NO: GEL/RCL/119/STM/2023-207

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	I	II	III
Date of sampling		21-03-2023	21-03-2023	21-03-2023
Time of monitoring		08:20 a.m.	08:50 a.m.	09:20 a.m.

1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec):	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	---	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. I : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

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REF.NO: GEL/RCL/119/STM/2023-208

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	21-03-2023	21-03-2023	22-03-2023
Time of monitoring	:	10:00 a.m.	10:40 a.m.	10:00 a.m.
1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	--	86	115
4. Exit velocity of flue gases (m/sec):	--	8.41	13.52	
5. Flow rate (m ³ /hr)	:	--	53,286	5,36,852
6. Flow rate (Nm ³ /hr)	:	--	44,405	4,12,963

EMISSION DATA

Method Used

7. Suspended particulate matter	:	--	10	07	IS: 11255 (Part-I), 1985 (RA-2019)
Concentration (mg/N m ³)					
8. Sulphur dioxide	:	--	--	05	IS: 11255 (Part-II), 1985 (RA-2019)
Concentration (mg/N m ³)					
9. Oxides of nitrogen	:	--	--	522	IS: 11255 (P-7), 2005 (RA-2017)
Concentration (mg/N m ³)					
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. IV : Attached to Cement Mill Line – 1 (Not in operation)

Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

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REF.NO: GEL/RCL/119/STM/2023-209

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling	:	22-03-2023	22-03-2023	22-03-2023
Time of monitoring	:	12:10 p.m.	02:30 p.m.	04:45 p.m.
1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	65	110	85
4. Exit velocity of flue gases (m/sec)	:	12.52	10.85	7.74
5. Flow rate (m ³ /hr)	:	61,613	3,03,887	70,775
6. Flow rate (Nm ³ /hr)	:	54,525	2,37,412	58,979

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	06	13	04	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. VII : Attached to Coal Mill Line - 2

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

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REF.NO: GEL/RCL/119/STM/2023-210

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 10:30 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 42
4. Exit velocity of flue gases (m/sec) : 9.32
5. Flow rate (cum/hr) : 16,843
6. Flow rate (Nm³ /hr) : 16,041

EMISSION DATA

7. Suspended particulate matter : 08
Concentration (mg/N m³)
8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-211

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 02:40 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 45
4. Exit velocity of flue gases (m/sec) : 9.73
5. Flow rate (cum/hr) : 17,584
6. Flow rate (Nm³ /hr) : 16,589

EMISSION DATA

7. Suspended particulate matter : 06
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

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REF.NO: GEL/RCL/119/STM/2023-212

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 12:30 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 40
4. Exit velocity of flue gases (m/sec) : 9.52
5. Flow rate (cum/hr) : 17,205
6. Flow rate (Nm³ /hr) : 16,385

EMISSION DATA

7. Suspended particulate matter : 07
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 03 - Line - 2
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REF.NO: GEL/RCL/119/STM/2023-213

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set **(Not in Operation)**
Date of sampling : 23-03-2023
Time of monitoring : 04:50 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA

		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: --	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	: --	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	: --	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is **not in Operation**
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023
Stack No. XI

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REF.NO: GEL/RCL/119/NQD/2023-214

Date: 29-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 23-03-2023		
S. No:	Locations		Noise Levels in dB (A)
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	69.2
		Left Side	68.4
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	66.3
		Left Side	64.9
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	67.8
		Left Side	67.2
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	67.6
		Left Side	65.3

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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Accredited by :



REF.NO: GEL/RCL/119/NQD/2023-215

Date: 29-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit – II,
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Date of Monitoring: 23-03-2023

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	63	58
2. Near School	51	49
3. Near C.C.R.	67	64
4. Near Raw Mill	69	65
5. Near Cement Mill	68	63
6. Near Crusher	71	68
7. Near Mines Office	61	57
8. Near Security Office	59	56

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-216

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 23-03-2023			
Date of analysis	: 24-03-2023			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.52	7.34	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 603	542	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 51	13	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 326	102	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 113	23	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.42	0.13	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

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Accredited by :



REF.NO: GEL/RCL/119/WA/2023-217

Date: 29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Inlet
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.63	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 669	--
4. Dissolved Solids (mg/l)	: 468	500
5. Total Hardness (mg/l)	: 173	300
6. Phenolphthalein Alkalinity(mg/l)	: 07	--
7. Methyl Orange Alkalinity (mg/l)	: 168	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 46.8	75
10. Magnesium as Mg (mg/l)	: 13.60	30
11. Sodium as Na (mg/l)	: 18	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 23	250
14. Sulphate as SO ₄ (mg/l)	: 09	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.70	1.00
17. Silica as SiO ₂ (mg/l)	: 0.48	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.86	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WA/2023-218

Date: 29-03-2023

WATER ANALYSIS

Name of the Industry : M/s. RAIN CEMENTS LIMITED – Unit – II,
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.10	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 325	--
4. Dissolved Solids (mg/l)	: 228	500
5. Total Hardness (mg/l)	: 42	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 37	200
8. Non-Carbonate Hardness (mg/l)	: 05	--
9. Calcium as Ca (mg/l)	: 11.6	75
10. Magnesium as Mg (mg/l)	: 3.15	30
11. Sodium as Na (mg/l)	: 16	--
12. Potassium as K (mg/l)	: 0.36	--
13. Chloride as Cl (mg/l)	: 19	250
14. Sulphate as SO ₄ (mg/l)	: 10	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.28	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.14	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-219

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 23-03-2023		
Date of Analysis	: 24-03-2023		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.69	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 636	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 05	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 64	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 13	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-220

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Sample Particulars	:	Boiler Blowdown water - PH		
Date of collection	:	23-03-2023		
Date of Analysis	:	24-03-2023	Limits	Method Used
1. pH	:	7.62	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	64	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	04	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	25	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	06	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-221

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - AQC		
Date of collection	:	23-03-2023		
Date of Analysis	:	24-03-2023	Limits	Method Used
1. pH	:	7.69	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	36	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	03	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	18	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO:GEL/RCL/119/WA/2023-222

Date:29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Bore well water 1
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.64	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 569	--
4. Dissolved Solids (mg/l)	: 398	500
5. Total Hardness (mg/l)	: 184	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 189	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 46.4	75
10. Magnesium as Mg (mg/l)	: 16.5	30
11. Sodium as Na (mg/l)	: 29	--
12. Potassium as K (mg/l)	: 0.37	--
13. Chloride as Cl (mg/l)	: 37	250
14. Sulphate as SO ₄ (mg/l)	: 17	200
15. Nitrate as NO ₃ (mg/l)	: 06	45
16. Fluorides as F (mg/l)	: 0.71	1.00
17. Silica as SiO ₂ (mg/l)	: 01	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.96	5.0

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Accredited by :



REF.NO:GEL/RCL/119/WA/2023-223

Date:29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Bore well water 2
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.48	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 417	--
4. Dissolved Solids (mg/l)	: 292	500
5. Total Hardness (mg/l)	: 231	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 246	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 67.2	75
10. Magnesium as Mg (mg/l)	: 15.30	30
11. Sodium as Na (mg/l)	: 34	--
12. Potassium as K (mg/l)	: 0.98	--
13. Chloride as Cl (mg/l)	: 40	250
14. Sulphate as SO ₄ (mg/l)	: 23	200
15. Nitrate as NO ₃ (mg/l)	: 11	45
16. Fluorides as F (mg/l)	: 0.69	1.00
17. Silica as SiO ₂ (mg/l)	: 1.0	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.79	5.0

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Accredited by :



REF.NO:GEL/RCL/119/WA/2023-224

Date:29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : **Boinacherupally (V), Peapully (M),**
Nandyal (Dist).

Sample Particulars : Bore well water 3
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.29	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 766	--
4. Dissolved Solids (mg/l)	: 536	500
5. Total Hardness (mg/l)	: 420	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 408	200
8. Non-Carbonate Hardness (mg/l)	: 12	--
9. Calcium as Ca (mg/l)	: 131.2	75
10. Magnesium as Mg (mg/l)	: 22.35	30
11. Sodium as Na (mg/l)	: 63	--
12. Potassium as K (mg/l)	: 1.2	--
13. Chloride as Cl (mg/l)	: 72	250
14. Sulphate as SO ₄ (mg/l)	: 25	200
15. Nitrate as NO ₃ (mg/l)	: 11	45
16. Fluorides as F (mg/l)	: 0.79	1.00
17. Silica as SiO ₂ (mg/l)	: 1.0	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.76	5.0

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-205

Date: 29-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. RAIN CEMENTS LIMITED, Unit – II
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near School Premises	21-03-2023	24 hr.	50	06	10	27	BDL
2.	Near Security	21-03-2023	24 hr.	55	10	14	33	BDL
3.	Near Lab	21-03-2023	24 hr.	58	07	12	31	BDL
4.	Near Mines Office	22-03-2023	24 hr.	48	06	10	26	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 23- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 448-DTE-2010), Next Calibration due on 23/07/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070702), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

for GLOBAL ENVIRO LABS

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Accredited by :



REF.NO: GEL/RCL/119/AAQ/2023-206

Date: 29-03-2023

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED, Unit – II**
Address : **Boinacherupally (V), Peapully (M),
Nandyal (Dist).**

Sl.No.	Location	Date	Duration of Sampling	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM _{2.5} (µg/m ³)	CO (mg/m ³)
1.	Near Crusher	22-03-2023	24 hr.	65	11	14	34	BDL
2.	Near Loading Point	22-03-2023	24 hr.	69	09	16	36	BDL
3.	Near Magazine Point	23-03-2023	24 hr.	44	04	07	25	BDL
4.	Near Haul Road	23-03-2023	24 hr.	67	10	15	35	BDL
5.	A.P.P.C.B. Limits			100	80	80	60	02
6.	Method Used			IS: 5182 Part 2- 2006 (RA-2017)	IS: 5182 Part 2- 2001 (RA-2017)	IS: 5182 Part 6- 2006 (RA-2017)	IS 5182 P-24 : 2019	IS: 5182 Part 10 : 1999 (Reaff.2019)

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2023

Fine Particulate Sampler Model FPS 9000 (Sl. No. 110147), Next Calibration due on 05/03/2024

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2023

Respirable Dust Sampler Model RDS 9000 (Sl. No. 100512), Next Calibration due on 08/04/2023

PM₁₀ : Particulate Matter (size less than 10µm)

PM_{2.5} : Particulate Matter (size less than 2.5µm)

CO : Carbon Monoxide

SO₂ : Sulphur Dioxide

NO_x : Oxides of Nitrogen

BDL : Below Detectible Limit

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-207

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	I	II	III
Date of sampling	:	21-03-2023	21-03-2023	21-03-2023
Time of monitoring	:	08:20 a.m.	08:50 a.m.	09:20 a.m.

1. Stack diameter (m)	:	3.20	2.50	1.00
2. Stack cross sectional area (sq m)	:	8.04	4.91	0.785
3. Flue gas temperature (°C)	:	---	---	---
4. Exit velocity of flue gases (m/sec)	:	---	---	---
5. Flow rate (m ³ /hr)	:	---	---	---
6. Flow rate (Nm ³ /hr)	:	---	---	---

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
11. A.P.P.C.B Limits (SO ₂)	100	--	--
12. A.P.P.C.B Limits (NO ₂)	800	--	--

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. I : Attached to Raw Mill / Kiln Line – 1 (Not in operation)

Stack No. II : Attached to Clinker Cooler Line –1 (Not in operation)

Stack No. III : Attached to Coal Mill Line – 1 (Not in operation)

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REF.NO: GEL/RCL/119/STM/2023-208

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars	Stack attached to	IV	V	VI
Date of sampling	:	21-03-2023	21-03-2023	22-03-2023
Time of monitoring	:	10:00 a.m.	10:40 a.m.	10:00 a.m.
1. Stack diameter (m)	:	1.50	1.50	3.75
2. Stack cross sectional area (sq m)	:	1.76	1.76	11.03
3. Flue gas temperature (°C)	:	--	86	115
4. Exit velocity of flue gases (m/sec):	--	8.41	13.52	
5. Flow rate (m ³ /hr)	:	--	53,286	5,36,852
6. Flow rate (Nm ³ /hr)	:	--	44,405	4,12,963

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	:	--	10	07	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	:	--	--	05	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	:	--	--	522	IS: 11255 (P-7), 2005 (RA-2017)
10. A.P.P.C.B Limits (SPM)		30	30	30	
11. A.P.P.C.B Limits (SO ₂)		--	--	100	
12. A.P.P.C.B Limits (NO ₂)		--	--	800	

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. IV : Attached to Cement Mill Line – 1 (Not in operation)**

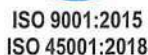
Stack No. V : Attached to Crusher Line – 2

Stack No. VI : Attached to Raw Mill/Kiln Line – 2

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Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).

Sample Particulars	Stack attached to	VII	VIII	IX
Date of sampling		22-03-2023	22-03-2023	22-03-2023
Time of monitoring		12:10 p.m.	02:30 p.m.	04:45 p.m.

1. Stack diameter (m)	:	1.32	3.15	1.80
2. Stack cross sectional area (sq m)	:	1.367	7.78	2.54
3. Flue gas temperature (°C)	:	65	110	85
4. Exit velocity of flue gases (m/sec):		12.52	10.85	7.74
5. Flow rate (m ³ /hr)	:	61,613	3,03,887	70,775
6. Flow rate (Nm ³ /hr)	:	54,525	2,37,412	58,979

EMISSION DATA

Method Used

7. Suspended particulate matter Concentration (mg/N m ³)	: 06	13	04	IS: 11255 (Part-I), 1985 (RA-2019)
8. Sulphur dioxide Concentration (mg/N m ³)	: --	--	--	IS: 11255 (Part-II), 1985 (RA-2019)
9. Oxides of nitrogen Concentration (mg/N m ³)	: --	--	--	IS: 11255 (P-7), 2005 (RA-2017)

10. A.P.P.C.B Limits (SPM)	30	30	30
----------------------------	----	----	----

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. VII : Attached to Coal Mill Line - 2

Stack No. VIII : Attached to Clinker Cooler Line – 2

Stack No. IX : Attached to Cement Mill Line – 2

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REF.NO: GEL/RCL/119/STM/2023-210

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 10:30 a.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 42
4. Exit velocity of flue gases (m/sec) : 9.32
5. Flow rate (cum/hr) : 16,843
6. Flow rate (Nm³ /hr) : 16,041

EMISSION DATA

7. Suspended particulate matter : 08
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 01 - Line – 2

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REF.NO: GEL/RCL/119/STM/2023-211

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 02:40 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 45
4. Exit velocity of flue gases (m/sec) : 9.73
5. Flow rate (cum/hr) : 17,584
6. Flow rate (Nm³ /hr) : 16,589

EMISSION DATA

7. Suspended particulate matter : 06
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: Stack No. X : Attached to Packing Plant Packer- 02 - Line – 2

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Accredited by :



REF.NO: GEL/RCL/119/STM/2023-212

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to X
Date of sampling : 23-03-2023
Time of monitoring : 12:30 p.m.

1. Stack diameter (m) : 0.80
2. Stack cross sectional area (sq m) : 0.502
3. Flue gas temperature (°C) : 40
4. Exit velocity of flue gases (m/sec) : 9.52
5. Flow rate (cum/hr) : 17,205
6. Flow rate (Nm³ /hr) : 16,385

EMISSION DATA

7. Suspended particulate matter : 07
Concentration (mg/N m³)

8. A.P.P.C.B Limits (SPM) : 30

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Note: **Stack No. X** : Attached to Packing Plant Packer- 03 - Line - 2
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REF.NO: GEL/RCL/119/STM/2023-213

Date: 29-03-2023

STACK MONITORING DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit - II**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Stack attached to the 1010 KVA D.G Set **(Not in Operation)**
Date of sampling : 23-03-2023
Time of monitoring : 04:50 p.m.

1. Stack diameter (m)	:	0.25
2. Stack cross sectional area (sq m)	:	0.049
3. Flue gas temperature (°C)	:	--
4. Exit velocity of flue gases (m/sec)	:	--
5. Flow rate (cum/hr)	:	--

EMISSION DATA

Limits

Method Used

6. Suspended particulate matter Concentration (mg/N m ³)	:	--	100	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	:	--	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	:	--	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: During the monitoring time D.G Set is **not in Operation**

Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2023

Stack No. XI

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REF.NO: GEL/RCL/119/NQD/2023-214

Date: 29-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of Monitoring	: 23-03-2023		
S. No:	Locations		Noise Levels in dB (A)
1.	Near Shovel Operators ear level at a distance of 3 m from Shovel	Right Side	69.2
		Left Side	68.4
2.	Near Drillers ear level at a distance of 3 m from Drilling Machine	Right Side	66.3
		Left Side	64.9
3.	Near Tipper Operators ear level at a distance of 3 m from Tipper	Right Side	67.8
		Left Side	67.2
4.	Due to Blasting at a distance of 500 m away from Blasting point	Right Side	67.6
		Left Side	65.3

Method Used : IS : 9989 – 1981 (RA-2014)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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REF.NO: GEL/RCL/119/NQD/2023-215

Date: 29-03-2023

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Date of Monitoring: 23-03-2023

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Laboratory	63	58
2. Near School	51	49
3. Near C.C.R.	67	64
4. Near Raw Mill	69	65
5. Near Cement Mill	68	63
6. Near Crusher	71	68
7. Near Mines Office	61	57
8. Near Security Office	59	56

Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Day Time is reckoned in between 6 a.m. and 10 p.m.

2. Night time is reckoned in between 10 p.m. and 6 a.m.

3. APPCB Limits for Noise Level at Daytime is 75 dB (A) and Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q666976), Next Calibration on: 21-09-2023

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-216

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,			
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).			
Date of collection	: 23-03-2023			
Date of analysis	: 24-03-2023			
Sample Particulars	: I	II	Limits	Method Used
1. pH	: 7.52	7.34	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 603	542	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 51	13	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 326	102	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand (3 days at 27°C)	: 113	23	100	IS:3025 (P-44) 1993 (RA-2019)
6. Oil & Grease	: 0.42	0.13	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

Note : I : S.T.P Inlet
II : S.T.P Outlet

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REF.NO: GEL/RCL/119/WA/2023-217

Date: 29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Inlet
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Permissible Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.63	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 669	--
4. Dissolved Solids (mg/l)	: 468	500
5. Total Hardness (mg/l)	: 173	300
6. Phenolphthalein Alkalinity(mg/l)	: 07	--
7. Methyl Orange Alkalinity (mg/l)	: 168	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 46.8	75
10. Magnesium as Mg (mg/l)	: 13.60	30
11. Sodium as Na (mg/l)	: 18	--
12. Potassium as K (mg/l)	: 1.0	--
13. Chloride as Cl (mg/l)	: 23	250
14. Sulphate as SO ₄ (mg/l)	: 09	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.70	1.00
17. Silica as SiO ₂ (mg/l)	: 0.48	--
18. Iron as Fe (mg/l)	: 0.02	1.0
19. Turbidity (NTU)	: 0.86	5.0

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REF.NO: GEL/RCL/119/WA/2023-218

Date: 29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : R.O.Outlet
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.10	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 325	--
4. Dissolved Solids (mg/l)	: 228	500
5. Total Hardness (mg/l)	: 42	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 37	200
8. Non-Carbonate Hardness (mg/l)	: 05	--
9. Calcium as Ca (mg/l)	: 11.6	75
10. Magnesium as Mg (mg/l)	: 3.15	30
11. Sodium as Na (mg/l)	: 16	--
12. Potassium as K (mg/l)	: 0.36	--
13. Chloride as Cl (mg/l)	: 19	250
14. Sulphate as SO ₄ (mg/l)	: 10	200
15. Nitrate as NO ₃ (mg/l)	: 05	45
16. Fluorides as F (mg/l)	: 0.28	1.00
17. Silica as SiO ₂ (mg/l)	: 0.1	--
18. Iron as Fe (mg/l)	: 0.01	1.0
19. Turbidity (NTU)	: 0.14	5.0

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Accredited by :



REF.NO: GEL/RCL/119/WWA/2023-219

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Date of collection	: 23-03-2023		
Date of Analysis	: 24-03-2023		
Sample Particulars	: Washing Ramp		
	Outlet Water	Limits	Method Used
1. pH	: 7.69	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 636	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 05	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 64	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 13	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: 0.10	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO: GEL/RCL/119/WWA/2023-220

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	:	M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	:	Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	:	Boiler Blowdown water - PH		
Date of collection	:	23-03-2023		
Date of Analysis	:	24-03-2023	Limits	Method Used
1. pH	:	7.62	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	64	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	04	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	25	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	:	06	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)				
6. Oil & Grease	:	Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO: GEL/RCL/119/WWA/2023-221

Date: 29-03-2023

WASTEWATER ANALYSIS

Name of the Industry	: M/s. RAIN CEMENTS LIMITED – Unit – II,		
Address	: Boinacherupally (V), Peapully (M), Nandyal (Dist).		
Sample Particulars	: Boiler Blowdown water - AQC		
Date of collection	: 23-03-2023		
Date of Analysis	: 24-03-2023	Limits	Method Used
1. pH	: 7.69	5.5-9.0	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	: 36	2100	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	: 03	200	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	: 18	250	IS:3025 (P-58) 2006(RA-2017)
5. Biological Oxygen Demand	: 04	100	IS:3025 (P-44) 1993 (RA-2019)
(3 days at 27°C)			
6. Oil & Grease	: Nil	10	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter
All the values are within the limits prescribed by APPCB

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REF.NO:GEL/RCL/119/WA/2023-222

Date:29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Bore well water 1
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.64	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 569	--
4. Dissolved Solids (mg/l)	: 398	500
5. Total Hardness (mg/l)	: 184	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 189	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 46.4	75
10. Magnesium as Mg (mg/l)	: 16.5	30
11. Sodium as Na (mg/l)	: 29	--
12. Potassium as K (mg/l)	: 0.37	--
13. Chloride as Cl (mg/l)	: 37	250
14. Sulphate as SO ₄ (mg/l)	: 17	200
15. Nitrate as NO ₃ (mg/l)	: 06	45
16. Fluorides as F (mg/l)	: 0.71	1.00
17. Silica as SiO ₂ (mg/l)	: 01	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.96	5.0

for GLOBAL ENVIRO LABS

AUTHORISED SIGNATORY



ISO 9001:2015
ISO 45001:2018

GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

2-2-1075/14/A/1, 1st Floor, Tilaknagar 'X' Road, Bagh Amberpet,
Hyderabad - 500 013. Ph : 27407969

E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO:GEL/RCL/119/WA/2023-223

Date:29-03-2023

WATER ANALYSIS

Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Bore well water 2
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.48	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 417	--
4. Dissolved Solids (mg/l)	: 292	500
5. Total Hardness (mg/l)	: 231	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 246	200
8. Non-Carbonate Hardness (mg/l)	: Nil	--
9. Calcium as Ca (mg/l)	: 67.2	75
10. Magnesium as Mg (mg/l)	: 15.30	30
11. Sodium as Na (mg/l)	: 34	--
12. Potassium as K (mg/l)	: 0.98	--
13. Chloride as Cl (mg/l)	: 40	250
14. Sulphate as SO ₄ (mg/l)	: 23	200
15. Nitrate as NO ₃ (mg/l)	: 11	45
16. Fluorides as F (mg/l)	: 0.69	1.00
17. Silica as SiO ₂ (mg/l)	: 1.0	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.79	5.0

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[Signature]

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Date:29-03-2023

WATER ANALYSIS

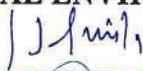
Name of the Industry : **M/s. RAIN CEMENTS LIMITED – Unit – II,**
Address : Boinacherupally (V), Peapully (M),
Nandyal (Dist).

Sample Particulars : Bore well water 3
Date of collection : 23-03-2023
Date of Analysis : 24-03-2023

Desirable Potable Limits
as per IS: 10500

1. Colour	: Colourless	Colourless
2. pH	: 7.29	6.5-8.5
3. Electrical Conductivity (micro mhos)	: 766	--
4. Dissolved Solids (mg/l)	: 536	500
5. Total Hardness (mg/l)	: 420	300
6. Phenolphthalein Alkalinity(mg/l)	: Nil	--
7. Methyl Orange Alkalinity (mg/l)	: 408	200
8. Non-Carbonate Hardness (mg/l)	: 12	--
9. Calcium as Ca (mg/l)	: 131.2	75
10. Magnesium as Mg (mg/l)	: 22.35	30
11. Sodium as Na (mg/l)	: 63	--
12. Potassium as K (mg/l)	: 1.2	--
13. Chloride as Cl (mg/l)	: 72	250
14. Sulphate as SO ₄ (mg/l)	: 25	200
15. Nitrate as NO ₃ (mg/l)	: 11	45
16. Fluorides as F (mg/l)	: 0.79	1.00
17. Silica as SiO ₂ (mg/l)	: 1.0	--
18. Iron as Fe (mg/l)	: 0.10	1.0
19. Turbidity (NTU)	: 0.76	5.0

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