



# Cemtac Cements Pvt. Ltd.

## Corporate Office

RCC Plaza

Nowgam Bye-Pass, Srinagar, Kashmir - 190015

Phone No: 9596899237, 9596754408

[info@cemtac.com](mailto:info@cemtac.com)

## Manufacturing Unit

Sulnar Saturnmarg, Khrev

Pulwama, Kashmir 19110.

[works@cemtac.com](mailto:works@cemtac.com)

The

Director (s)

Northern Regional Office,

Ministry of Environment & Forest,

Bays No: 24-25, Sector 31-A

Daksin-Marg, Chandigarh-160030.

No: CCPL/2022-23/265-67

Dated: 15/06/2022

**Subject:** Submission of Compliance of Environment Clearance for Cemtac Cements Pvt. Ltd. at Village Sulnar Saturnmarg Khrew District Pulwama J& K.

**Reference:** Environment Clearance Letter No I-11011/226/2012-1A-II(I) Dated 19.05.2016.

Sir,

As per above mentioned subject we are sending the half yearly environment compliance report for the period October 2021 to March 2022.

Thank You

*[Signature]*  
Yours faithfully,

For M/S Cemtac Cements Pvt. Ltd.

Enclosures.

Item	leaves
Compliance Report	1 to 26
Annexure No-1 (Ambient Air Quality Report)	3 leaves
Annexure No-2 (Stack Emission Report)	2 leaves
Annexure No-3 (Noise Monitoring Report)	2 leaves
Annexure No-4 Ground Water Sample	1 leaves
Annexure No-5 (Environment & Social Expenditure)	1 leaves

Soft copy of compliance report in CD

Copy to:

1. Incharge, CPCB Zonal Office (North) PICUP Bhawan, Vibhuti, Gomit Nagar Lucknow-226010.
2. The Regional Director State Pollution Control Board Srinagar for information please.



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## Environmental & Social Expenditure from October 2021 to March 2022.

### Environment Expenditure

1. Expenditure on General Roads:  
Concrete road maintenance and new constructions followed by erecting retaining walls and breast walls:  
Rs. 6,65,000
2. Water spraying system for dust suppression including maintenance etc:  
Rs. 3,98,000
3. Cost of replacements used in pollution control equipment's: Rs. 12,90,000
4. Power consumption in running the pollution equipment's:  
VSK (3,4) (5,6) Rs. 15,60,000
5. Plantation /Development of Green belt: Rs. 91,000

### Social Expenditure.

6. Cement to local welfare on concessional rate: Rs. 4,70,000
7. Donations, cash incentives to local community: Rs. 44,800

**Total** **=Rs. 4518800**

  
Cemtac Cements Pvt. Ltd

# Environment Compliance Report of

**M/s. CEMENTAC CEMENTS PVT. LTD.**

**Cement Project**

**Location of the Project : Near Village, Sulnar Saturnmarg Khrew**

**District : Pulwama J&K**

**Production Capacity : 1,80,000 TPA Cement**

**Environment Clearance Letter No. – F. No. J-11011/226/2012-IA, II (I)**

**Dated 19.05.2016**

**Address of Correspondence : RCC- Plaza Nowgam Bypass Srinagar**

**Compliance Period: 1<sup>st</sup> October 2021 to 31<sup>th</sup> March 2022**



<p>Prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the plant within 10 km radius from Dachigam National Park (as prior clearance of NBWL is required for a project if it is located in 10 km of a Protected Area/Sanctuary or Eco Sensitive Zone as per the Hon'ble Supreme Court order dated 4.12.2006 in W.P. 460/2004), before commencing any activity relating to the project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest and Climate Change shall not be responsible in this regard, in any manner.</p>	<p>Noted and being complied.</p>
<p>The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office. Emission for particulate matter should be restricted to 30 mg/m<sup>3</sup>.</p>	<p>The company has installed 24x7 online monitoring system as per the CPCB guidelines. The cement plant is equipped with dust control devices of adequate capacity to restrict particulate as per the norms.</p>

iii.	The expansion project shall comply with the new MOEF&CC Standards notified vide GSR 612 (F) dated 25.08.2014 with respect to Cement sector.	Complied and adequate measures are in place to comply with the standards notified.
iv.	All the pollution control devices/equipment in the grinding unit shall be interlocked so that in the event of the pollution control devices/systems not working the respective units(s) shut down automatically.	Interlocking facility is provided in the pollution control equipment's so that in case of pollution control device not working, the respective unit shall shut down automatically.



**Fig.-1.1 Plant view**



**Fig.-1.2 Plantation in the plant yard**

	<p>Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.</p>	<p>Utmost care is taken, and Water is regularly sprinkled at fugitive emission sources. The emissions are within the prescribed limits.</p>
.	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.</p>	<p>The roads used for the vehicular movement are macadamised with regular water sprinkling to reduce the impact on the environment. The raw material transported to the plant are covered with underbody load and through covered conveyer system. The vehicles emissions are regularly monitored.</p>





**Fig.-1.3 Development of Green park in front of the Office**



**Fig.-1.4 Water Sprinkling on roads**





**Fig.-1.5 Plantation drive around the plant**



**Fig.-1.6 New plantation around the plant**

i.	All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.	There is no such waste water generated in the plant. The water which is discharged by the drains is used for plantation.
ii.	Storage of material should be in covered area.	All the storage facilities for the raw material etc. have been covered.





**Fig.-1.7 Covered Cement mill and Silo**



**Fig.-1.8 Covered storage facilitates**





**Fig.-1.9 Dust collectors installed**



**Fig.-1.10 Dust Collector attached to Crusher**

	<p>Rain water harvesting plan shall be prepared and shall supplement the water requirements of the project.</p>	<p>Being Complied. Rain water collected through proper drainage system shall be stored in the proposed water storage tank.</p>
	<p>Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated waste water should meet the norms prescribed by the State Pollution Control Board of described under the Environment (Protection) Act, 1986 whichever are more stringent.</p>	<p>The monitoring of the water is regularly performed and as the cement manufacturing process is dry so no waste water is generated.</p>

	<p>Green belt shall be developed in at least 33 % area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.</p>	<p>Green Belt development has been done around the plant, along the roads and near the storage of raw material to trap the dust. The boundary around the plant has been developed as green-belt area. The future plantation drive shall be conducted in consultation with the concerned DFO.</p>
i.	<p>All the made to the public during the Public Hearing/Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office.</p>	<p>Agreed and compiled, but some commitments shall be finalised during the expansion plan of the plant.</p>





**Fig.-1.11 Green belt development**



**Fig.-1.12 Plantation along the road**





**Fig.-1.13 Beautification work of the plant premises**



**Fig.-1.14 Plantation near the quarters**

ii.	<p>At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing Issues and item wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Chandigarh, the proponent shall prepare a detailed ESC Plan for every next 5 years for the existing -cum- expansion project, which includes village-wise, sector- wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The ESC Plan will include the amount of 2% retain annual profits as provided for in clause 135 of the Companies Act, 2013 which provides for 2% of the averaged net profits of previous 3 years towards ESC activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the compliance Report to RO, Chandigarh. The details of the ESC Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.</p>	<p>The ESC budget has been prepared and separate account is being maintained. Number of awareness, training, CSR and eco-development projects are undertaken. The other commitment shall be addressed at the time of expansion of the plant.</p>
v.	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Separate labour quarters are provided with all the safety and hygienic facilities.</p>



## GENERAL CONDITIONS:

<p>The project authorities must strictly adhere to the stipulations made by the Jammu &amp; Kashmir Pollution Control Board and the State Government.</p>	<p>Agreed and the Consent to Operate from SPCB has been obtained. Consent No.:- PCB/digit /2006999063 of 2020 Dated:- 18/02/2020</p>
<p>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change (MoEFCC).</p>	<p>Accepted</p>

i.	At least four ambient air quality monitoring stations, should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chandigarh and the SPCB/CPCB once in six months.	The quarterly reports as per the EIA report are submitted regularly to Authorities. The monitoring is done through the third party NABL accredited laboratory.
ii.	Industrial wastewater shall be properly collected treated so as to conform to the standards prescribed under GSR (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	No industrial waste water is generated.

	<p>The overall noise levels in and around the plant area shall be kept well within the standards ( 85-8BA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).</p>	<p>Periodical measurements are been taken and the levels are within the limits (reports are annexed). All the safety gears for the reduction of noise are provided.</p>
i.	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<p>Occupational health surveillance of workers is being carried out as per the factory act.</p>



vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	The drainage system has been constructed to help collection of rain water for recharging of the ground water.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding village like community development programs, educational programs, drinking water supply and health care etc.	The environmental protection measures & safeguards as envisaged in the EIA /EMP such as Green belt development, Installation of Pollution Control Equipment, Rain water harvesting are compiled as per EIA/EMP report.

	<p>Requisite funds shall be earmarked towards capital cost and recurring cost. Annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Officer of the Ministry at Chandigarh. The funds so neither provided shall nor be diverted for any other purpose.</p>	<p>Noted for compliance.</p>
	<p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat Zila Parishad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</p>	<p>The same has been provided to the local unions and Auqaf members with the copy advertised in newspaper.</p>

	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Chandigarh "The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Monitoring of Ambient Air quality data is being submitted to Regional Office at Lucknow, zonal office of CPCB and J&amp;K state Pollution Control Board. Ambient Air Monitoring Reports are annexed.</p>
i.	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e- mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chandigarh/ CPCB/SPCB shall monitor the stipulated conditions.</p>	<p>Six monthly reports along with the monitored data are regularly sent to the concerned authorities</p>



ii.	<p>The environmental statement for each financial year ending 31st March I Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environment conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chandigarh by e-mail.</p>	Agreed
v.	<p>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 SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. 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 at Chandigarh.</p>	<p>The advertisement of grant of environmental clearance was published in local widely circulated newspapers. The local Auqaf was also informed about the same.</p>

y.	Project authorities shall 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.	Agreed



**Fig.-1.15 Clinker Storage sheds**



**Fig.-1.16 Covered Cement silos**





**Fig.-1.17 Silos with bag filters**



**Fig.-1.18 Water sprinkling on the roads**



**Fig.-1.19 Concrete approach roads**



**Fig.-1.20 Concrete storage sheds**





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(A Government Approved Testing Laboratory)

An ISO 9001:2015 & 45001:2018 (OHSAS) Certified Laboratory

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB & HSPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-120222-01	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample description : Ambient Air  
Sampling Location : Village Gujjar Basti  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 12/02/2022 to 16/02/2022  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.12  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>), Fine Particulate (PM<sub>2.5</sub>) Sampler  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	65.21	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	27.84	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	7.28	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	10.97	µg /m <sup>3</sup>	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	<1.15	mg/m <sup>3</sup>	4.0

### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

E. : noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com





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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-120222-02	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample description : Ambient Air  
Sampling Location : Village Sathpokhran  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 12/02/2022 to 16/02/2022  
Average Flow Rate of SPM ( $\text{m}^3/\text{min.}$ ) : 1.10  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler ( $\text{PM}_{10}$ ), Fine Particulate ( $\text{PM}_{2.5}$ ) Sampler  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter ( $\text{PM}_{10}$ )	IS:5182 Part-XXIII	62.81	$\mu\text{g}/\text{m}^3$	100.0
2.	Particulate Matter ( $\text{PM}_{2.5}$ )	IS:5182 Part-XXIV	25.37	$\mu\text{g}/\text{m}^3$	60.0
3.	Sulphur dioxide (as $\text{SO}_2$ )	IS:5182 Part-II	7.52	$\mu\text{g}/\text{m}^3$	80.0
4.	Nitrogen dioxide (as $\text{NO}_2$ )	IS:5182 Part-VI	10.69	$\mu\text{g}/\text{m}^3$	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	<1.15	$\text{mg}/\text{m}^3$	4.0

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-120222-03	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample description : Ambient Air  
Sampling Location : Village Zantrag  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 12/02/2022 to 16/02/2022  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.07  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>), Fine Particulate (PM<sub>2.5</sub>) Sampler  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	61.25	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	26.49	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	7.37	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	10.42	µg /m <sup>3</sup>	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	<1.15	mg/m <sup>3</sup>	4.0

### Notes:

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-120222-04	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample Received On : 12/02/2022  
Sample description : Ambient Noise  
Sampling Location : Near Entry Gate  
Sampling Time : 24 hrs

### TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	65.8	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	42.4	dB(A)	Residential Area	55	45
				Silence Zone	50	40

### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-120222-05	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturnmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample Received On : 12/02/2022  
Sample description : Ambient Noise  
Sampling Location : Near Office Side  
Sampling Time : 24 hrs

### TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	62.9	dB(A)	Industrial Area	75	70
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	40.8	dB(A)	Commercial Area	65	55
				Residential Area	55	45
				Silence Zone	50	40

### Notes:

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Drinking Water	W-120222-06	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturnmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample Received on : 12/02/2022  
Sample Drawn By : NTL  
Sample Drawn On : 11/02/2022  
Sample Quantity : 2.0 Lt.  
Analysis Duration : 12/02/2022 to 16/02/2022  
Sample Description : Drinking Water Collected from Plant

### RESULTS

Essential test as per IS:10500-2012

S. No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	6.92	-	6.5 – 8.5	-
2.	Colour	IS:3025(Part-4)	<5.0	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.0	NTU	1	5
6.	Total Hardness (as CaCO <sub>3</sub> )	IS:3025(Part-21)	96.41	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	18.62	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	35.08	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.126	mg/l	1.0	No Relaxation
10.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	1.43	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	189.0	mg/l	500	2000
12.	Alkalinity (as Ca CO <sub>3</sub> )	IS: 3025 (P- 23)	112.0	mg/l	200	600
13.	Fluoride (as F)	APHA 22nd edit	<0.1	mg/l	1.0	1.5
14.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	4.32	mg/l	200	400
15.	Magnesium (as mg)	IS: 3025 (P-46)	1.56	mg/l	30	100

### MICROBIOLOGICAL REQUIREMENT

### RESULTS

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

Remarks-(1) Based on above tested parameter water sample meet as per IS-10500:2012 in desirable limit, Water is fit for drinking purpose.

### Notes:

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- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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Authorized Signatory

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-120222-07	16/02/2022

**Issued To:** M/s Cemtac Cements Pvt. Ltd.  
**Address:** Sulnar Saturmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample drawn on : 11/02/2022  
Sample Drawn By : NTL  
Sample description : Stack Emission  
Sampling Time : 30 minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 12/02/2022 to 16/02/2022  
Stack Temperature (°C) : 119  
Source of Emission : Stack Attached to Wet Scrubber - 01  
Type of Fuel used : Pet Coke  
Operating Load : Normal  
Type of Stack : Metal circular  
Diameter of Stack (meter) : 0.35  
Height of Stack from Ground level (meter) : 30.0  
Average Velocity of Flue Emission (m/s) : 9.8  
Attached APCs : Cyclone + Wet Scrubber

TEST RESULT					
S.No.	Parameter	Test Method	Results	Units	Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	34.15	mg /Nm <sup>3</sup>	50
2.	Sulphur dioxide (SO <sub>2</sub> )	IS:11255(Part-2)	28.40	mg /Nm <sup>3</sup>	200
3.	Nitrogen dioxide (NO <sub>2</sub> )	IS:11255(Part-7)	46.20	mg /Nm <sup>3</sup>	500

### Notes:

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Stack Emission	ST-120222-08	16/02/2022

Issued To: M/s Cemtac Cements Pvt. Ltd.  
Address: Sulnar Saturnmarg Khrew Pulwama (J & K)

### SAMPLING & ANALYSIS DATA

Sample drawn on : 11/02/2022  
Sample Drawn By : NTL  
Sample description : Stack Emission  
Sampling Time : 30 minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 12/02/2022 to 16/02/2022  
Stack Temperature (°C) : 121  
Source of Emission : Stack Attached to Wet Scrubber - 02  
Type of Fuel used : Pet Coke  
Operating Load : Normal  
Type of Stack : Metal circular  
Diameter of Stack (meter) : 0.35  
Height of Stack from Ground level (meter) : 30.0  
Average Velocity of Flue Emission (m/s) : 9.5  
Attached APCs : Cyclone + Wet Scrubber

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	32.26	mg /Nm <sup>3</sup>	50
2.	Sulphur dioxide (SO <sub>2</sub> )	IS:11255(Part-2)	20.18	mg /Nm <sup>3</sup>	200
3.	Nitrogen dioxide (NO <sub>2</sub> )	IS:11255(Part-7)	36.50	mg /Nm <sup>3</sup>	500

### Notes:

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-120222-09	16/02/2022

**Issued To:** M/s Salinar Satur Marg Limestone Mine  
**Address:** Area- 29.4151 Hect., Village- Khrew, Dist.- Pulwama (Jammu & Kashmir)

### SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL  
Date of Sampling : 11/02/2022  
Sample Description : Ambient Air  
Sampling Location : Mine Site  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 12/02/2022 to 16/02/2022  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.09  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

TEST RESULT					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	77.21	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	47.39	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 Part-II	8.52	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 Part-VI	16.60	µg /m <sup>3</sup>	80

#### Notes: -

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-120222-10	16/02/2022

**Issued To:** M/s Salinar Satur Marg Limestone Mine  
**Address:** Area- 29.4151 Hect., Village- Khrew, Dist.- Pulwama (Jammu & Kashmir)

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 11/02/2022  
Sample Drawn By : NTL  
Sample Received On : 12/02/2022  
Sample description : Ambient Noise  
Sampling Location : Mine Site

TEST RESULT						
S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	57.2	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	38.8	dB(A)	Residential Area	55	45
				Silence Zone	50	40

### Notes:

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water Sample	W-120222-11	16/02/2022

**Issued To:** M/s Salinar Satur Marg Limestone Mine  
**Address:** Area- 29.4151 Hect., Village- Khrew, Dist.- Pulwama (Jammu & Kashmir)

### SAMPLING & ANALYSIS DATA

Sample Received On : 12/02/2022  
Sample Drawn By : NTL  
Sample Quantity : 2 lit.  
Sampling Location : Mine Site  
Sample Description : Water  
Analysis Duration : 12/02/2022 to 16/02/2022

### RESULTS

Essential test as per IS:10500-2012

S. No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.31	-	6.5 – 8.5	-
2.	Colour	IS:3025(Part-4)	<5.0	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.0	NTU	1	5
6.	Total Hardness (as CaCO <sub>3</sub> )	IS:3025(Part-21)	187.60	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	74.16	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	98.24	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.246	mg/l	1.0	No Relaxation
10.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	12.69	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	388.0	mg/l	500	2000
12.	Alkalinity (as Ca CO <sub>3</sub> )	IS: 3025 (P- 23)	192.0	mg/l	200	600
13.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	35.21	mg/l	200	400

### MICROBIOLOGICAL REQUIREMENT

### RESULTS

S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

\*Remarks – As per IS 10500: 2012, standards the sampled water is suitable for potable, purpose.

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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Soil Quality	SQ-120222-12	16/02/2022

**Issued To:** M/s Salinar Satur Marg Limestone Mine  
**Address:** Area- 29.4151 Hect., Village- Khrew, Dist.- Pulwama (Jammu & Kashmir)

### Sampling & Analysis Data

Sample Received On : 12/02/2022  
Sample Drawn By : Laboratory (NTL)  
Sample Description : Soil Sample Collected from Mine Site  
Analysis Duration : 12/02/2022 to 16/02/2022

Sl. No.	Parameters	Results	Test Method
1.	pH	7.31	IS:2720(Part-26)
2.	Conductivity ( $\mu$ mhos/cm)	462.7	IS:2720(Part-21)
3.	Sodium (as Na)(mg/kg)	67.43	STP/SOIL
4.	Water holding capacity (%)	34.21	STP/SOIL
5.	Potassium (as K) (mg/kg)	256.95	STP/SOIL
6.	Texture		
	Sand (% by mass)	58.8	STP/SOIL
	Clay (% by mass)	18.2	STP/SOIL
	Silt (% by mass)	23.0	STP/SOIL
7.	Calcium (as Ca)(mg/kg)	248.52	STP/SOIL
8.	Magnesium (as Mg) (mg/kg)	64.75	STP/SOIL
9.	SAR	0.72	STP/SOIL
10.	CEC (meq/100gm)	2.86	STP/SOIL
11.	Available Phosphorus (as P),(mg/kg)	12.43	STP/SOIL
12.	Organic carbon (%)	0.25	STP/SOIL
13.	Porosity (% by mass)	43.21	STP/SOIL
14.	Permeability (cm/hr)	1.76	STP/SOIL
15.	Bulk Density ( $\text{kg}/\text{cm}^3$ )	1.49	STP/SOIL
16.	TKN%	0.027	STP/SOIL

### Notes:

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