



**THE RAMCO CEMENTS LIMITED**



Kumarasamy Raja Nagar – 521457  
Jaggayyapet Mandal, Krishna District,  
Andhra Pradesh, India  
Phone: 08654 224400-04  
Fax: 08654 222352  
E-mail: [mcclpm@ramcocements.co.in](mailto:mcclpm@ramcocements.co.in)

RCL/MoEF&CC/73/2023-2024

01.02.2024

The Director (Non-Coal Mining),  
Ministry of Environment, Forest and Climate Change,  
Government of India,  
Indira Paryavaran Bhawan,  
Ali Ganj, Jor Bagh Road,  
New Delhi- 110003.

Sub: Submission of Additional Information (ADS) – Ramco Budawada Limestone Mine (ML area 160.0 Ha) of The Ramco Cements Limited with Limestone production capacity from 1.10 MTPA to 2.50 MTPA) located at Jaggayyapet Village, Jaggayyapet Mandal, NTR (earlier Krishna) District, Andhra Pradesh – Reg.

Ref:

1. EC proposal submitted vide proposal No. IA/AP/MIN/25556/2014, File No. J-11015/443/2014-IA.II(M).
2. ADS EAC Meeting Held on 07.12.2023 Vide Agenda No. 01.
3. Additional Details sought (ADS) on 18.12.2023 and reply submitted on 17.01.2024.
4. Additional Details sought (ADS) on 25.01.2024.

Respected Sir,

We, The Ramco Cements Limited, submitted the proposal for Expansion of Ramco Budawada Limestone Mine (RF) with ML area of 160.0 Ha for Limestone production expansion from 1.10 MTPA to 2.50 MTPA located at Jaggayyapet Village, Jaggayyapet Mandal, NTR (earlier Krishna) District, Andhra Pradesh.

Our above proposal was deliberated in EAC in its meeting held during 07.12.2023 for grant of Environmental Clearance. Additional Details Sought (ADS) raised by the Ministry on 18.12.2023 and we have submitted ADS reply on 17.01.2024 (vide 3<sup>rd</sup> cited) for this proposal. Another Additional Details Sought (ADS) raised by the Ministry on 25.01.2024 for this proposal on 25.01.2024 (vide 4<sup>th</sup> cited). Copy of the latest EC report is enclosed as **Annexure – I**. We are herewith submitting the point wise response to the points raised as per ref (4) cited above:

S. No.	ADS Point raised	ADS Reply	Annexure
1	The matter has been examined in the Ministry and it is found that the Project Proponent has carried out the revalidation of baseline data only for ambient air quality. Hence, the Project Proponent is requested to submit the revalidation of baseline data for noise level, water quality and soil quality with the comparison of both old and new data along with certified test reports	The baseline data for ambient air quality, noise level, water quality and soil quality is being submitted with the comparison of both old and new data along with certified test reports.	<b>Annexure – II</b>



ISO 9001 ISO 14001 ISO 45001 ISO 50001  
Certified Company

Kumarasamy Raja Nagar – 521457  
Jaggayyapet Mandal, Krishna District,  
Andhra Pradesh, India  
Phone: 08654 224400-04  
Fax: 08654 222352  
E-mail: [mcljpm@ramcocements.co.in](mailto:mcljpm@ramcocements.co.in)

## THE RAMCO CEMENTS LIMITED

Considering all the above, we humbly request the Ministry to consider the expansion proposal from 1.10 MTPA to 2.50 MTPA of limestone from Ramco Budawada Limestone Mine (RF) and to accord the Environmental Clearance (EC) order as per SO 1533 Notification and subsequent amendments.

Thanking You.

Yours faithfully,

For M/s The Ramco Cements Limited.,

ASHISH KUMAR SRIVASTAVA  
President (Mfg.)

Encl.: As above.

**ANNEXURE-I**  
**EC REPORT**

**EC Report****1. Project Details**

Whether it is a violation case and application is being submitted under Notification No. S.O.804(E) dated 14.03.2017 ? : No

**1. Project Details**

i. Proposal No. : IA/AP/MIN/25556/2014

ii. MoEFCC File No. : J-11015/443/2014-IA.II(M)

iii. Short narrative of the project: RamcoBudawada Limestone Mine The Ramco Cements Limited (Formerly Madras Cements Ltd..)

iv. Project Sector : Mining Projects

v. Company/Proponent : THE RAMCO CEMENTS LIMITED

**vi. Details of State of the project**

Details of State of the project			
S.no.	State Name	District Name	Tehsil Name
1.	Andhra Pradesh	Krishna	Jaggayyapeta

vii. Uploaded EC Compliance report by regional office of MoEFCC: [Annexure-Uploaded EC Compliance report](#)

viii. Certified Monitoring report by RoMoEF: [Annexure-Uploaded Monitoring report](#)

ix. Date of TOR Granted 29 Jul 2015

x. TOR letter issued by Ministry: [Annexure-TOR letter](#)

ix. Date of Submission for EC: 10 Aug 2016

x. Project Type: Expansion

## 2. Uploaded Documents of EIA/EMP,Risk Assessment,Public Hearing etc.

i.EIA/EMP: [Annexure-EIA/EMP](#)

ii.Risk Assessment: [Annexure-Risk Assessment](#)

iii.Public Hearing: [Annexure-Public Hearing](#)

iv. Date of Public Hearing: 26 Apr 2016

v. Uploaded Additional Report/Study/Document as desired by Ministry/EAC: [Annexure-Additional Report/Study/Document](#)

vi. Uploaded Cover Letter: [Annexure-Cover Letter](#)

vii.Remarks: Final EIA Report alongwith Annexures is uploaded and Approved Mining plan is uploaded as Additional Document

## 3. Additional Detail Sought

Additional Detail Sought			
Sno.	ADS Letter	Remarks	Date of ADS
1.	NA	Based on the information furnished and discussion held, the Committee was of the view that only 10% of the production has been achieved and proposal for expansion could not be justified by the PP. Therefore, Committee decided to deferred the proposal and was of the view that PP has to submit the following documents, in addition to justification for seeking EC for expansion, for further decision on the matter by the committee i, The mine lease area is complete forest land however no Schedule 1 species was reported in the area. Therefore, list of flora and fauna of study area shall be authenticated by State Forest Department, ii, The Conservation plan for Schedule 1 species, if any, shall be submitted, iii, The baseline data appears to be incorrect. The fresh baseline data shall be coll	05 Oct 2016
2.	<a href="#">ADS Letter</a>	Additional data for points raised in the earlier EAC meeting for EC proposal	14 Sep 2017
3.	NA	The proposal was again considered in the EAC Meeting held on 19-20 Sep, 2016. Based on the information furnished and discussion held, the Committee was of the view that only 10% of the production has been achieved and proposal for expansion could not be justified by the PP. Therefore, Committee decided to deferred the proposal and was of the view that PP has to submit the following documents, in addition to justification for seeking EC for expansion, for further decision on the matter by the committee. i, The mine lease area is complete forest land however no Schedule 1 species was reported in the area. Therefore, list of flora and fauna of study area shall be authenticated by State Forest Department, ii, The Conservation plan for Schedule 1 species, if any, shall be submitted, iii,	01 Nov 2017
4.	<a href="#">ADS Letter</a>	Please find attached the reply for the additional details sought.	10 Aug 2023

5.	NA	Sir, The Project Proponent is kindly requested to submit the latest certified compliance report as per Ministry's OM dated 08.06.2022 being an expansion proposal.	06 Sep 2023
6.	<a href="#">ADS Letter</a>	Please find attached reply for the additional details sought raised on 06.09.2023.	26 Oct 2023
7.	NA	Sir, Being an expansion proposal, the Project Proponent is kindly requested to submit the latest certified compliance report as per Ministry's OM dated 08.06.2022 wherein it has mentioned that "for the proposals involving expansion of existing EC, CCR issued by the concerned Authority shall be valid for a period of one year from the date of inspection of the project".	27 Oct 2023
8.	<a href="#">ADS Letter</a>	Please find attached reply for the additional details sought raised on 27.10.2023.	07 Nov 2023
9.	NA	Deferred	18 Dec 2023
10.	<a href="#">ADS Letter</a>	We are herewith submitting the ADS reply	17 Jan 2024
11.	NA	Sir, The matter has been examined in the Ministry and it is found that the Project Proponent has carried out the revalidation of baseline data only for ambient air quality. Hence, the Project Proponent is requested to submit the revalidation of baseline data for noise level, water quality and soil quality with the comparison of both old and new data along with certified test reports.	25 Jan 2024

#### 4. Accredited Consultant Details

i. Accreditation status : Yes

ii. Accreditation No. : NABET/EIA/1316/RA002

iii. Name of Consultant: M/s. B. S. Envi-Tech Pvt. Ltd.

iv. Address : 12-13-1270/71/73, Amity Ville, 4th Floor, Beside Spencer Super Market, St. Ann's Road, Tarnaka, Secunderabad-500017

v. Mobile No.: 9848053012

vi. Landline No.: 040-49783062

vii. Email Id: mcljpmqc@gmail.com

#### 5. Undertaking

**I hereby give undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or**

**misleading at at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.**

**i. Name of Applicant :** Reddy Nagaraju

**ii. Designation :** President (Projects)

**iii. Name of Company(Applicant Name should not be given here) :** The Ramco Cements Limited

**iv. Address :** THE RAMCO CEMENTS LIMITED (Formerly known as Madras Cements Ltd) Auras Corporate Centre 98-A Dr.

**v. Uploaded copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency:** NIL

**ANNEXURE-II**  
**ENV. MONITORING REPORTS**



# **AMBIENT AIR QUALITY REPORT**



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Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### ANNEXURE-II

#### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Mine Site

**Code: A-1**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA -09
<b>December-2023</b>					
05.12.2023	65.3	32.5	10.3	13.5	<1
06.12.2023	67.9	31.3	12.2	14.6	<1
12.12.2023	66.2	32.8	11.6	13.9	<1
13.12.2023	58.9	29.3	12.8	14.5	<1
19.12.2023	62.8	25.6	13.1	15.3	<1
20.12.2023	66.0	26.7	11.9	14.6	<1
26.12.2023	68.9	28.9	13.2	15.2	<1
27.12.2023	70.3	29.3	14.3	16.1	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



**Authorized Signatory**  
**(V. Vijay Kumar)**  
**Env. Scientist**

\*Complaints Register is available at Laboratory.



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client : The Ramco Cements Limited**

**Project : Budawada Limestone Mine**

**Month : December 2023**

**Station : Jaggayyapet**

**Code: A-2**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA-09
<b>December-2023</b>					
05.12.2023	49.2	29.3	13.2	14.6	<1
06.12.2023	48.7	20.2	14.3	15.8	<1
12.12.2023	47.2	22.6	12.5	15.3	<1
13.12.2023	48.3	27.7	14.6	16.2	<1
19.12.2023	45.8	24.8	11.9	14.5	<1
20.12.2023	46.9	26.3	12.3	15.1	<1
26.12.2023	48.2	28.9	13.5	15.4	<1
27.12.2023	47.5	27.7	11.8	13.9	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>

  
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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Budawada

**Code: A-3**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA -09
<b>December-2023</b>					
05.12.2023	50.2	22.5	12.4	13.5	<1
06.12.2023	48.9	21.3	14.5	15.3	<1
12.12.2023	48.5	23.8	13.6	16.2	<1
13.12.2023	47.6	23.6	11.9	15.4	<1
19.12.2023	49.2	22.5	12.6	14.3	<1
20.12.2023	47.9	24.2	11.8	12.9	<1
26.12.2023	48.8	19.9	13.1	14.5	<1
27.12.2023	48.6	23.1	12.9	15.3	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

**Project** : Budawada Limestone Mine

**Month** : December 2023

**Station** : Mukteswarapuram

**Code:** A-4

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA -09
December-2023					
05.12.2023	65.2	25.1	11.3	13.2	<1
06.12.2023	56.3	23.6	12.5	14.6	<1
12.12.2023	57.8	24.1	15.6	16.8	<1
13.12.2023	56.7	22.8	16.3	17.2	<1
19.12.2023	51.2	20.9	12.4	13.2	<1
20.12.2023	58.9	21.1	13.2	14.6	<1
26.12.2023	49.3	22.8	13.3	14.9	<1
27.12.2023	52.8	23.4	14.8	15.3	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client : The Ramco Cements Limited**

**Project : Budawada Limestone Mine**

**Month : December 2023**

**Station : Dondapadu**

**Code: A-5**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA-09
December-2023					
07.12.2023	47.1	25.6	10.9	11.3	<1
08.12.2023	42.5	24.2	11.3	12.6	<1
14.12.2023	42.3	23.5	14.2	13.5	<1
15.12.2023	44.7	21.1	13.5	14.2	<1
21.12.2023	45.6	30.4	12.6	13.9	<1
22.12.2023	43.9	24.1	12.9	14.5	<1
28.12.2023	44.8	19.8	11.8	12.6	<1
29.12.2023	45.3	20.3	13.1	14.4	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Ravirala

**Code: A-6**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA-09
<b>December-2023</b>					
07.12.2023	43.9	21.5	13.6	15.3	<1
08.12.2023	45.3	22.3	13.9	14.9	<1
14.12.2023	44.9	20.9	14.2	15.6	<1
15.12.2023	41.2	30.3	12.8	13.6	<1
21.12.2023	40.9	27.8	11.9	13.4	<1
22.12.2023	44.9	21.2	12.3	14.5	<1
28.12.2023	43.7	19.9	10.9	12.9	<1
29.12.2023	43.8	23.6	11.6	13.6	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

**Project** : Budawada Limestone Mine

**Month** : December 2023

**Station** : Jayanthipuram

**Code: A-7**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA -09
<b>December-2023</b>					
07.12.2023	60.3	21.2	11.6	13.1	<1
08.12.2023	54.2	25.6	12.9	13.8	<1
14.12.2023	51.9	30.7	13.2	14.2	<1
15.12.2023	41.2	22.5	13.5	14.3	<1
21.12.2023	53.9	26.3	14.1	15.6	<1
22.12.2023	54.0	27.3	12.8	13.8	<1
28.12.2023	51.6	25.3	11.4	12.3	<1
29.12.2023	50.7	25.0	12.0	13.4	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

**Project** : Budawada Limestone Mine

**Month** : December 2023

**Station** : Kavutavari Agraharam

**Code: A-8**

Date of sampling	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Units	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Test Method	IS 5182 Part-23	IS 5182 Part-24	IS 5182 Part-2	IS 5182 Part-6	BSET/SOP/AA-09
<b>December-2023</b>					
07.12.2023	49.3	30.2	11.2	12.3	<1
08.12.2023	44.8	25.6	13.1	14.6	<1
14.12.2023	43.2	21.9	10.9	12.8	<1
15.12.2023	42.8	25.3	11.6	12.9	<1
21.12.2023	44.3	23.8	12.5	13.4	<1
22.12.2023	41.8	24.2	11.9	12.6	<1
28.12.2023	49.8	23.1	12.1	13.2	<1
29.12.2023	46.7	20.9	12.3	13.0	<1
<b>NAAQ Standards for Industrial, Residential, Rural and Other Areas</b>	<b>100 (24 hrs.)</b>	<b>60 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>80 (24 hrs.)</b>	<b>02 (8 hrs.)</b>



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DETAILS OF AMBIENT AIR QUALTY MONITORING LOCATIONS				Old Data (Winter Season – 2014-15)				Fresh data collected (December 2023)			
Station Code	Location/Village	With respect to Mine		98th Percentile values							
		Distance (km)	Direction	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
A1	Mine Site	—	—	65.0	38.2	12.6	13.6	67.9	32.5	13.2	15.3
A2	Jaggiahpet	3.0	NE	45.6	24.3	11.3	12.6	48.7	28.9	14.3	15.8
A3	Budawada	3.5	WNW	45.8	25.4	13.2	13.9	49.2	23.8	13.6	15.4
A4	Mukteswarapuram	3.1	S	56.5	25.7	11.3	12.2	58.9	24.1	15.6	16.8
A5	Dondapadu	5.0	SW	45.5	28.8	11.3	12.4	45.6	25.6	13.5	14.4
A6	Ravirala	4.2	SE	41.7	23.8	11.9	13.2	44.9	27.8	13.9	15.3
A7	Jayanthipuram	3.6	E	53.7	23.9	12.4	13.9	54.2	27.3	13.5	14.3
A8	Kavutavari Agraharam	2.6	E	42.3	27.9	11.0	12.2	49.3	25.6	12.5	13.4

  
Authorized Signatory  
(V. Vijay Kumar)  
Env. Scientist

\*Complaints Register is available at Laboratory.

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# **WATER QUALITY REPORT**



# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Jaggaiahapet Village Borewell (GW1)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023		
		JAGGAIAHAPET (BOREWELL) GW1		ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.52	7.36	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo <sub>3</sub> , mg/l	307	350	200	600
7	Iron as Fe, mg/l	0.14	0.12	1.0	No Relaxation
8	Chlorides as Cl, mg/l	85	98	250	1000
9	Dissolved solids, mg/l	410	602	500	2000
10	Calcium as Ca, mg/l	90	98	75	200
11	Copper as Cu, mg/l	<0.01	<0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	<0.02	0.1	0.3
13	Sulphate as SO <sub>4</sub> , mg/l	106	118	200	400
14	Nitrate as No <sub>3</sub> , mg/l	23	25	45	No Relaxation
15	Fluoride as F, mg/l	0.80	0.90	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.002	<0.01	No Relaxation
24	Alkalinity as CaCo <sub>3</sub> , mg/l	160	190	200	600
25	Boron as B, mg/l	0.08	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	20	26	30	100



Authorized Signatory  
(V. Vijay Kumar)  
Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Budawada Village Borewell (GW2)

NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		BUDAVADA (BOREWELL) GW2			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.48	7.40	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	387	410	200	600
7	Iron as Fe, mg/l	0.08	0.06	1.0	No Relaxation
8	Chlorides as Cl, mg/l	233	250	250	1000
9	Dissolved solids, mg/l	980	1058	500	2000
10	Calcium as Ca, mg/l	97	104	75	200
11	Copper as Cu, mg/l	<0.01	<0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	<0.02	0.1	0.3
13	Sulphate as SO4, mg/l	128	143	200	400
14	Nitrate as No3, mg/l	6	8	45	No Relaxation
15	Fluoride as F, mg/l	0.72	0.79	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.002	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	286	320	200	600
25	Boron as B, mg/l	<0.1	0.13	0.5	2.4
26	Magnesium as Mg, mg/l	35	36	30	100



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(V. Vijay Kumar)  
Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Mukteswarapuram Village Borewell (GW3)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		MUKTESWARAPURAM (BOREWELL) GW3			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.54	7.43	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	396	430	200	600
7	Iron as Fe, mg/l	0.08	0.09	1.0	No Relaxation
8	Chlorides as Cl, mg/l	98	113	250	1000
9	Dissolved solids, mg/l	598	745	500	2000
10	Calcium as Ca, mg/l	128	130	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	62	74	200	400
14	Nitrate as No3, mg/l	41	39	45	No Relaxation
15	Fluoride as F, mg/l	0.80	0.91	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	< 0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	282	310	200	600
25	Boron as B, mg/l	0.06	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	21	26	30	100



*(Signature)*  
**Authorized Signatory**  
**(V. Vijay Kumar)**  
**Env. Scientist**

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Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Dondapadu Village Borewell (GW4)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023		
		DONDEPADU BOREWELL) GW4		ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.92	7.50	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	457	480	200	600
7	Iron as Fe, mg/l	0.06	0.07	1.0	No Relaxation
8	Chlorides as Cl, mg/l	179	190	250	1000
9	Dissolved solids, mg/l	798	842	500	2000
10	Calcium as Ca, mg/l	115	120	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	84	92	200	400
14	Nitrate as No3, mg/l	1	3	45	No Relaxation
15	Fluoride as F, mg/l	0.80	0.86	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.01	< 0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	270	290	200	600
25	Boron as B, mg/l	<0.1	0.15	0.5	2.4
26	Magnesium as Mg, mg/l	42	44	30	100



**Authorized Signatory**  
**(V. Vijay Kumar)**  
**Env. Scientist**

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Ravirala Village Borewell (GW5)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		RAVIRALA BOREWELL) GW5			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	8.28	7.82	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	220	250	200	600
7	Iron as Fe, mg/l	0.20	0.14	1.0	No Relaxation
8	Chlorides as Cl, mg/l	63	75	250	1000
9	Dissolved solids, mg/l	497	720	500	2000
10	Calcium as Ca, mg/l	55	62	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	65	80	200	400
14	Nitrate as No3, mg/l	46	40	45	No Relaxation
15	Fluoride as F, mg/l	0.68	0.78	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	< 0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	289	335	200	600
25	Boron as B, mg/l	0.04	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	20	23	30	100



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Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Jayantipuram Village Borewell (GW6)

L. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		JAYANTIPURAM (BOREWELL) GW6			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.83	7.51	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	263	290	200	600
7	Iron as Fe, mg/l	0.05	0.07	1.0	No Relaxation
8	Chlorides as Cl, mg/l	98	110	250	1000
9	Dissolved solids, mg/l	590	701	500	2000
10	Calcium as Ca, mg/l	69	72	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	43	56	200	400
14	Nitrate as No3, mg/l	13	15	45	No Relaxation
15	Fluoride as F, mg/l	1.10	1.14	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	290	320	200	600
25	Boron as B, mg/l	0.05	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	22	24	30	100



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(V. Vijay Kumar)  
Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Kavutavari Agraharam Village Borewell (GW7)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		KAVUTAVARI AGRAHARAM BOREWELL) GW7			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	<5	5	15
4	pH	7.55	7.42	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	<1	1	5
6	Total Hardness as CaCo3, mg/l	342	370	200	600
7	Iron as Fe, mg/l	0.05	0.09	1.0	No Relaxation
8	Chlorides as Cl, mg/l	183	198	250	1000
9	Dissolved solids, mg/l	935	832	500	2000
10	Calcium as Ca, mg/l	104	106	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	58	67	200	400
14	Nitrate as No3, mg/l	9	11	45	No Relaxation
15	Fluoride as F, mg/l	0.36	0.50	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	270	295	200	600
25	Boron as B, mg/l	0.05	0.13	0.5	2.4
26	Magnesium as Mg, mg/l	20	26	30	100



Authorized Signatory  
(V. Vijay Kumar)  
Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Paleru River Near Jaggaiahpet (SW1)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		PALERU RIVER NEAR JAGGAIAHPET (UP STREAM) SW 1			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	5	5	5	15
4	pH	7.82	7.90	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	3	1	5
6	Total Hardness as CaCo3, mg/l	318	270	200	600
7	Iron as Fe, mg/l	0.18	0.20	1.0	No Relaxation
8	Chlorides as Cl, mg/l	120	108	250	1000
9	Dissolved solids, mg/l	1328	740	500	2000
10	Calcium as Ca, mg/l	76	74	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	<0.02	0.1	0.3
13	Sulphate as SO4, mg/l	119	94	200	400
14	Nitrate as No3, mg/l	16	14	45	No Relaxation
15	Fluoride as F, mg/l	0.91	0.85	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	< 0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	< 0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	432	310	200	600
25	Boron as B, mg/l	0.02	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	31	21	30	100



Authorized Signatory  
(V. Vijay Kumar)  
Env. Scientist

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# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Paleru River Near Jayantipuram (SW2)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		PALERU RIVER NEAR JAYANTIPURAM (DOWN STREAM) SW2			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	10	5	5	15
4	pH	8.29	8.16	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	4	1	5
6	Total Hardness as CaCo3, mg/l	346	280	200	600
7	Iron as Fe, mg/l	0.21	0.24	1.0	No Relaxation
8	Chlorides as Cl, mg/l	87	95	250	1000
9	Dissolved solids, mg/l	876	675	500	2000
10	Calcium as Ca, mg/l	97	76	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	81	82	200	400
14	Nitrate as No3, mg/l	9	8	45	No Relaxation
15	Fluoride as F, mg/l	1.01	0.93	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	< 0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	< 0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	303	300	200	600
25	Boron as B, mg/l	0.09	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	25	22	30	100



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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Paleru River Near Ravirala- Up stream (SW3)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		PALERU RIVER NEAR RAVIRALA (UP STREAM) SW 3			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	5	5	15
4	pH	7.30	7.62	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	2	1	5
6	Total Hardness as CaCo3, mg/l	442	310	200	600
7	Iron as Fe, mg/l	0.11	0.18	1.0	No Relaxation
8	Chlorides as Cl, mg/l	210	113	250	1000
9	Dissolved solids, mg/l	1431	730	500	2000
10	Calcium as Ca, mg/l	142	86	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	172	104	200	400
14	Nitrate as No3, mg/l	9	10	45	No Relaxation
15	Fluoride as F, mg/l	1.08	0.95	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	370	285	200	600
25	Boron as B, mg/l	0.09	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	21	23	30	100



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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Paleru River Near Ravirala Downstream (SW4)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		PALERU RIVER NEAR RAVIRALA (DOWN STREAM) SW 4			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	10	5	5	15
4	pH	8.18	7.94	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	3	1	5
6	Total Hardness as CaCo3, mg/l	271	290	200	600
7	Iron as Fe, mg/l	0.15	0.20	1.0	No Relaxation
8	Chlorides as Cl, mg/l	75	93	250	1000
9	Dissolved solids, mg/l	720	645	500	2000
10	Calcium as Ca, mg/l	77	80	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	65	96	200	400
14	Nitrate as No3, mg/l	5	6	45	No Relaxation
15	Fluoride as F, mg/l	0.90	0.89	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	204	260	200	600
25	Boron as B, mg/l	0.04	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	19	22	30	100

  
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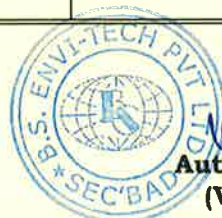
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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Krishna River Near Muktyala- Up Stream (SW5)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		KRISHNA RIVER NEAR MUKTYALA (UP STREAM) SW 5			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	5	5	15
4	pH	7.80	7.70	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	3	1	5
6	Total Hardness as CaCo3, mg/l	339	250	200	600
7	Iron as Fe, mg/l	0.10	0.18	1.0	No Relaxation
8	Chlorides as Cl, mg/l	249	78	250	1000
9	Dissolved solids, mg/l	1352	554	500	2000
10	Calcium as Ca, mg/l	101	64	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	165	86	200	400
14	Nitrate as No3, mg/l	15	9	45	No Relaxation
15	Fluoride as F, mg/l	1.03	0.76	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	310	225	200	600
25	Boron as B, mg/l	0.07	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	21	22	30	100



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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Krishna River Near Muktyala- Down Stream (SW6)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		KRISHNA RIVER NEAR MUKTYALA (DOWN STREAM) SW 6			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	5	5	15
4	pH	7.90	7.89	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	4	1	5
6	Total Hardness as CaCo3, mg/l	308	230	200	600
7	Iron as Fe, mg/l	0.21	0.26	1.0	No Relaxation
8	Chlorides as Cl, mg/l	236	70	250	1000
9	Dissolved solids, mg/l	632	512	500	2000
10	Calcium as Ca, mg/l	92	60	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	123	78	200	400
14	Nitrate as No3, mg/l	10	8	45	No Relaxation
15	Fluoride as F, mg/l	0.32	0.72	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	432	210	200	600
25	Boron as B, mg/l	0.13	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	19	19.5	30	100



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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Krishna River Near Vedadri- Up Stream (SW7)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		KRISHNA RIVER NEAR VEDADRI (UP STREAM) SW 7			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	5	5	15
4	pH	7.21	7.60	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	1	2	1	5
6	Total Hardness as CaCo3, mg/l	335	265	200	600
7	Iron as Fe, mg/l	0.13	0.16	1.0	No Relaxation
8	Chlorides as Cl, mg/l	176	83	250	1000
9	Dissolved solids, mg/l	1120	586	500	2000
10	Calcium as Ca, mg/l	88	68	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	142	90	200	400
14	Nitrate as No3, mg/l	11	10	45	No Relaxation
15	Fluoride as F, mg/l	1.11	0.78	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	391	240	200	600
25	Boron as B, mg/l	0.17	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	28	23	30	100



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Env. Scientist

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## TEST REPORT

### WATER QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Krishna River Near Vedadri- Down Stream (SW8)

SL. NO.	TESTS	RESULTS		IS 10500 -2012 [DRINKING WATER STANDARD]	
		January 2015 04.01.2015	December 2023 21.12.2023	ACCEPTABLE LIMITS	MAX. PERMISSIBLE LIMITS IN ABSENCE OF ALTERNATE SOURCE
		KRISHNA RIVER NEAR VEDADRI (DOWN STREAM) SW 8			
1	Odour	Agreeable	Agreeable	Agreeable	Agreeable
2	Taste	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour (Hazen units)	<5	5	5	15
4	pH	7.19	7.67	6.5 to 8.5	No Relaxation
5	Turbidity, NTU	<1	3	1	5
6	Total Hardness as CaCo3, mg/l	242	240	200	600
7	Iron as Fe, mg/l	0.11	0.20	1.0	No Relaxation
8	Chlorides as Cl, mg/l	132	80	250	1000
9	Dissolved solids, mg/l	643	560	500	2000
10	Calcium as Ca, mg/l	54	62	75	200
11	Copper as Cu, mg/l	<0.01	< 0.02	0.05	1.5
12	Manganese as Mn, mg/l	<0.01	< 0.02	0.1	0.3
13	Sulphate as SO4, mg/l	160	84	200	400
14	Nitrate as No3, mg/l	16	9	45	No Relaxation
15	Fluoride as F, mg/l	0.93	0.74	1.0	1.5
16	Mercury as (Hg), mg/l	<0.001	<0.001	0.001	No Relaxation
17	Cadmium as (Cd), mg/l	<0.003	<0.003	0.003	No Relaxation
18	Selenium as Se, mg/l	<0.01	<0.01	0.01	No Relaxation
19	Arsenic as As, mg/l	<0.01	<0.01	0.01	No Relaxation
20	Cyanide as CN, mg/l	<0.02	<0.02	0.05	No Relaxation
21	Lead as Pb, mg/l	<0.01	<0.01	0.01	No Relaxation
22	Zinc as Zn, mg/l	<0.01	<0.02	5	15
23	Total Chromium as Cr, mg/l	<0.001	<0.02	<0.01	No Relaxation
24	Alkalinity as CaCo3, mg/l	344	230	200	600
25	Boron as B, mg/l	0.15	< 0.1	0.5	2.4
26	Magnesium as Mg, mg/l	26	21	30	100



*(Signature)*  
**Authorized Signatory**  
**(V. Vijay Kumar)**  
**Env. Scientist**

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# **SOIL QUALITY REPORT**



# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Mine Site (S-1)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S-1) Mine Site	
1	pH (1:2 Soil water Extract)	8.21	8.15
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	545	430
3	Total soluble salts, mg/kg	580	520
4	Nitrates as N, (mg/kg)	16	21
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	28	48
6	Potassium as (K <sub>2</sub> O) (kg/ha)	230	384
7	Sodium as Na <sub>2</sub> O (mg/kg)	140	152
8	Calcium as Ca (mg/kg)	2410	2365
9	Magnesium as Mg (mg/kg)	135	170
10	Chlorides as Cl (mg/kg)	75	95
11	Organic carbon (%)	0.62	0.58
12	<b>Texture</b>		
	Sand (%)	57	61
	Silt (%)	20	18
	Clay (%)	23	21
13	Type of Soil	Sandy Loam	Sandy Clay Loam

  
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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Jaggaiahpet (S-2)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S-2) Jaggaiahpet	
1	pH (1:2 Soil water Extract)	8.32	8.20
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	403	376
3	Total soluble salts, mg/kg	410	460
4	Nitrates as N, (mg/kg)	13	18
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	31	36
6	Potassium as (K <sub>2</sub> O) (kg/ha)	160	372
7	Sodium as Na <sub>2</sub> O (mg/kg)	120	138
8	Calcium as Ca (mg/kg)	2100	2164
9	Magnesium as Mg (mg/kg)	103	195
10	Chlorides as Cl (mg/kg)	83	90
11	Organic carbon (%)	0.40	0.50
12	<b>Texture</b>		
	Sand (%)	62	55
	Silt (%)	15	21
	Clay (%)	23	24
13	Type of Soil	Sandy Loam	Sandy Clay Loam

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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Budavada (S-3)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S3)Budavada	
1	pH (1:2 Soil water Extract)	8.12	8.06
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	190	204
3	Total soluble salts, mg/kg	205	250
4	Nitrates as N, (mg/kg)	7	12
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	16	21
6	Potassium as (K <sub>2</sub> O) (kg/ha)	180	416
7	Sodium as Na <sub>2</sub> O (mg/kg)	85	108
8	Calcium as Ca (mg/kg)	2120	2244
9	Magnesium as Mg (mg/kg)	98	122
10	Chlorides as Cl (mg/kg)	58	50
11	Organic carbon (%)	0.12	0.40
12	<b>Texture</b>		
	Sand (%)	63	59
	Silt (%)	17	19
	Clay (%)	20	22
13	Type of Soil	Sandy Loam	Sandy Clay Loam

  
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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Mukteshwarapuram (S-4)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S4)Muktesharapuram	
1	pH (1:2 Soil water Extract)	8.27	8.17
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	220	247
3	Total soluble salts, mg/kg	260	310
4	Nitrates as N, (mg/kg)	12	15
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	26	28
6	Potassium as (K <sub>2</sub> O) (kg/ha)	260	448
7	Sodium as Na <sub>2</sub> O (mg/kg)	95	116
8	Calcium as Ca (mg/kg)	2180	2204
9	Magnesium as Mg (mg/kg)	115	134
10	Chlorides as Cl (mg/kg)	36	60
11	Organic carbon (%)	0.27	0.45
12	<b>Texture</b>		
	Sand (%)	65	57
	Silt (%)	15	20
	Clay (%)	20	23
13	Type of Soil	Sandy Loam	Sandy Clay Loam



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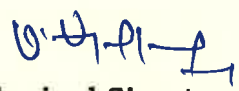
## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Dondapadu (S-5)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S5) Dondapadu	
1	pH (1:2 Soil water Extract)	8.33	8.22
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	370	332
3	Total soluble salts, mg/kg	320	410
4	Nitrates as N, (mg/kg)	18	20
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	28	40
6	Potassium as (K <sub>2</sub> O) (kg/ha)	340	402
7	Sodium as Na <sub>2</sub> O (mg/kg)	150	162
8	Calcium as Ca (mg/kg)	2210	2325
9	Magnesium as Mg (mg/kg)	106	146
10	Chlorides as Cl (mg/kg)	54	80
11	Organic carbon (%)	0.38	0.52
12	<b>Texture</b>		
	Sand (%)	58	50
	Silt (%)	17	23
	Clay (%)	25	27
13	Type of Soil	Sandy Loam	Sandy Clay Loam



  
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**(V. Vijay Kumar)**  
**Env. Scientist**

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# B.S. ENVI - TECH PVT. LTD.

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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Ravirala (S-6)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S6) Ravirala	
1	pH (1:2 Soil water Extract)	8.34	8.25
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	300	318
3	Total soluble salts, mg/kg	310	380
4	Nitrates as N, (mg/kg)	9	16
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	17	28
6	Potassium as (K <sub>2</sub> O) (kg/ha)	320	346
7	Sodium as Na <sub>2</sub> O (mg/kg)	260	186
8	Calcium as Ca (mg/kg)	2010	2285
9	Magnesium as Mg (mg/kg)	105	158
10	Chlorides as Cl (mg/kg)	56	75
11	Organic carbon (%)	0.12	0.48
12	<b>Texture</b>		
	Sand (%)	51	47
	Silt (%)	23	25
	Clay (%)	26	28
13	Type of Soil	Sandy Loam	Sandy Clay Loam



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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Jayantipuram (S-7)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S7) Jayantipuram	
1	pH (1:2 Soil water Extract)	8.39	8.27
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	320	294
3	Total soluble salts, mg/kg	405	360
4	Nitrates as N, (mg/kg)	24	32
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	42	74
6	Potassium as (K <sub>2</sub> O) (kg/ha)	160	512
7	Sodium as Na <sub>2</sub> O (mg/kg)	70	192
8	Calcium as Ca (mg/kg)	2710	2905
9	Magnesium as Mg (mg/kg)	107	219
10	Chlorides as Cl (mg/kg)	62	70
11	Organic carbon (%)	0.70	0.64
12	<b>Texture</b>		
	Sand (%)	16	25
	Silt (%)	35	32
	Clay (%)	49	43
13	Type of Soil	Silty Clay	Clay



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## TEST REPORT

### SOIL QUALITY DATA

**Client** : The Ramco Cements Limited  
**Project** : Budawada Limestone Mine  
**Month** : December 2023  
**Station** : Kavutavari Agraharam (S-8)

S.No	Parameters	January 2015 04.01.2015	December 2023 21.12.2023
		(S8) Kavutavari Agraharam	
1	pH (1:2 Soil water Extract)	8.21	8.12
2	Electrical conductivity (micro mhos) (1:2 Soil water Extract)	270	256
3	Total soluble salts, mg/kg	301	320
4	Nitrates as N, (mg/kg)	10	14
5	Phosphorous as (P <sub>2</sub> O <sub>5</sub> ) (kg/ha)	20	26
6	Potassium as (K <sub>2</sub> O) (kg/ha)	170	316
7	Sodium as Na <sub>2</sub> O (mg/kg)	130	174
8	Calcium as Ca (mg/kg)	1450	2044
9	Magnesium as Mg (mg/kg)	60	182
10	Chlorides as Cl (mg/kg)	25	65
11	Organic carbon (%)	0.31	0.42
12	<b>Texture</b>		
	Sand (%)	48	41
	Silt (%)	18	27
	Clay (%)	34	32
13	Type of Soil	Sandy Clay	Clay Loam



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# **NOISE MONITORING REPORT**





# B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

### NOISE MONITORING DATA

**Client : The Ramco Cements Limited**

**Project : Budawada Limestone Mine**

**JANUARY 2015**

Station Code	Locations/ Receptor	Distance [km]	Direction w.r.t Mine Site	NOISE LEVEL, dB (A)	
				Day Equivalent (6am to 10 pm)	Night Equivalent (10pm to 6 am)
CORE ZONE					
N1	Mine Site	---	---	62.6	57.2
National Ambient Air Quality Standards w.r.t Noise for industrial area				75	70
BUFFER ZONE					
N2	Jaggaiahpet	3.0	NE	53.1	43.7
N3	Budawada	3.5	WNW	51.9	41.9
N4	Mukteswarapuram	3.1	S	53.5	43.5
N5	Dondapadu	5.0	SW	51.4	44.1
N6	Ravirala	4.2	SE	52.5	42.9
N7	Jayantipuram	3.6	E	50.8	41.3
N8	Kavutavari Agraharam	2.6	E	52.1	43.6
National Ambient Air Quality Standards w.r.t Noise for Residential area				55	45

**DECEMBER 2023**

Station Code	Locations/ Receptor	Distance [km]	Direction w.r.t Mine Site	NOISE LEVEL, dB (A)	
				Day Equivalent (6am to 10 pm)	Night Equivalent (10pm to 6 am)
CORE ZONE					
N1	Mine Site	---	---	71.2	64.5
National Ambient Air Quality Standards w.r.t Noise for industrial area				75	70
BUFFER ZONE					
N2	Jaggaiahpet	3.0	NE	52.8	44.2
N3	Budawada	3.5	WNW	50.6	42.4
N4	Mukteswarapuram	3.1	S	52.3	41.0
N5	Dondapadu	5.0	SW	50.9	41.5
N6	Ravirala	4.2	SE	53.4	40.8
N7	Jayantipuram	3.6	E	51.2	41.8
N8	Kavutavari Agrapharam	2.6	E	53.6	42.9
National Ambient Air Quality Standards w.r.t Noise for Residential area				55	45

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