



## THE RAMCO CEMENTS LIMITED

### Corporate Office :

Auras Corporate Centre, V Floor,  
98-A, Dr. Radhakrishnan Salai, Mylapore,  
Chennai - 600 004, India.  
Tel : +91 44 2847 8666 Fax : +91 44 2847 8676  
Website : www.ramcocements.in  
Corporate Identity Number : L26941TN1957PLC003566

RCL/MoEF&CC/66/2023-2024

16/01/2024

To  
The Director (Non-Coal Mining)  
Government of India  
Ministry of Environment, Forest and Climate Change  
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) in 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-11015/443/2 014-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.

Respected Sir,

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

Our above proposal was deliberated in the EAC (Non-Coal Mining) in its meeting held during 07.12.2023 for grant of Environmental Clearance. We are herewith submitting the following information as per ref (3) cited above:

We are herewith enclosing **point wise response to the points raised.**

S.No	ADS Point	ADS Reply
1	The Project Proponent needs to revise the information and data in the technical presentation as per the current scenario.	The PPT has been updated as per current status.
2	The Project Proponent needs to revalidate the baseline data for one month considering the expansion scenario and submit the comparison of both old and new data.	The baseline data has been Revalidated for the month of December 2023 and is attached as <b>Annexure-I.</b>
3	The Project Proponent needs to submit the authenticated proof for achieved production of more than 5,00,000 Metric Tonnes in the FY 2023-24.	The Authenticated production details up to the month of September 2023 is attached as <b>Annexure- II.</b>

## THE RAMCO CEMENTS LIMITED

S.No	ADS Point	ADS Reply
4	The Project Proponent needs to verify from the Decision Support System (DSS) available from the National Tiger Conservation Authority (NTCA) website clarifying that whether instant mine lease area is a part of the tiger corridor and whether the transportation route passing through the tiger dispersal route.	The location of mines with respect to Tiger Reserves and Tiger corridors as per DSS of NTCA is attached as <b>Annexure-III</b> . The Mine lease is not a part of any tiger corridor. The Transportation route is not passing through any Tiger dispersal route.
5	The Project Proponent needs to submit the revised list of authenticated flora and fauna in reference to the Wild Life (Protection) Amendment Act, 2022 and shall submit the proof of the submission of application of Wildlife Conservation Plan made to the Chief Wildlife Warden along with the activities proposed under Wildlife Conservation Plan.	The Revised and the updated Authenticated list of Flora and Fauna is attached as <b>Annexure- IV</b> . The wildlife conservation plan was submitted to Chief Wildlife Warden, Government of Andhra Pradesh, Forest Department Mangalagiri and acknowledgement was obtained on 29.12.2023. The proof of submission is enclosed as <b>(Annexure – V)</b> .
6	The Project Proponent needs to submit the layout of crusher and the preventive measures taken for noise control and dust suppression.	The Layout plan consisting of Railway line, stock yard, loading point, crusher is attached as <b>Annexure- VI</b> . The Preventive measures taken for Noise control and Dust suppression is enclosed as <b>Annexure – VIA</b> .
7	The Project Proponent to submit the action plan to address the concerns raised during public hearing over a period of 3 years and status of implementation if any.	The Concerns raised in the Public Hearing, replies by management and the status of implementation is attached as <b>Annexure- VII</b> .
8	The Project Proponent needs to submit the breakup of the project cost of Rs 4.0 Cr.	The project cost breakup is attached as <b>Annexure-VIII</b> .
9	The Project Proponent needs to submit the latest complete approved mining plan in Parivesh portal.	The latest Mining Plan approved is attached as <b>Annexure- IX</b> .
10	The Project Proponent needs to submit the closure report issued by the Sub-Office for the partially complied conditions.	The closure report from IRO, Vijayawada for the action Taken Report submitted is attached as <b>Annexure- X</b> .
11	The Project Proponent needs to submit the copy of NoC obtained for abstraction of Groundwater.	The copy of the permission for the abstraction of Ground water is attached as <b>Annexure- XI</b> .

We request the Ministry to process our proposal for grant of Environmental Clearance as per EIA Notification 2006 Notification and subsequent amendments.

Thanking You

Yours faithfully,

For M/s The Ramco Cements Limited.,

  
**C RAVICHANDRAN**

Sr. Vice President (ESG)

Encl: as above





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## TEST REPORT

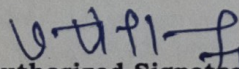
ANNEXURE-I

### 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
December-2023					
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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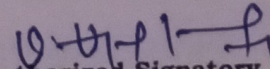
## TEST REPORT

### 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
December-2023					
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>

  
Authorized Signatory  
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Env. Scientist

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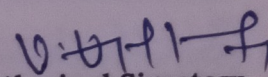
## TEST REPORT

### 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
December-2023					
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>

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

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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

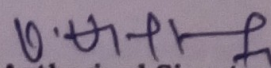
**Project** : Budawada Limestone Mine

**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
<b>December-2023</b>					
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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Env. Scientist

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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

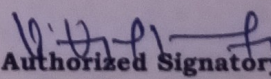
**Project** : Budawada Limestone Mine

**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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Env. Scientist

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4<sup>th</sup> Floor, 'AMITY VILLE', 12-13-1270/71/73,  
St. Ann's Road, Tarnaka,  
Secunderabad - 500017,  
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063  
Email : lab@bsenvitech.com, info@bsenvitech.com  
Website : www.bsenvitech.com  
CIN No. : U74210TG1999PTC032358





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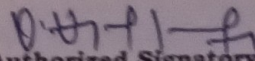
## TEST REPORT

### 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
December-2023					
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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4<sup>th</sup> Floor, 'AMITY VILLE', 12-13-1270/71/73,  
St. Ann's Road, Tamaka,  
Secunderabad - 500017,  
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063  
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## TEST REPORT

### AMBIENT AIR QUALITY DATA

**Client** : The Ramco Cements Limited

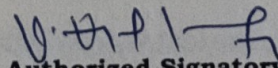
**Project** : Budawada Limestone Mine

**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
December-2023					
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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**(V. Vijay Kumar)**  
**Env. Scientist**

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### AMBIENT AIR QUALITY DATA

Client : The Ramco Cements Limited

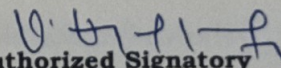
Project : Budawada Limestone Mine

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
December-2023					
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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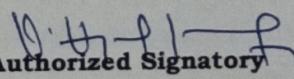


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Recognized by MoEF & CC, Gol: Valid upto November, 2025

## TEST REPORT

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 Agharam	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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St. Ann's Road, Tarnaka,  
Secunderabad - 500017,  
Telangana, India

Phone : +91 40 49783062 / 27016806 Fax : +91 40 49783063  
Email : lab@bsenvitech.com, info@bsenvitech.com  
Website : www.bsenvitech.com  
CIN No. : U74210TG1999PTC032358



**GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY**

From:

Sri K.Subrahmanyeswara Rao, M.Sc., Tech.,  
District Mines & Geology Officer,  
NTR District.

To:

M/s.The Ramco Cements  
Ltd.,  
Jaggaipeta.

**Letter No:436/M/2001, Dated:07-12-2023.**

Sir,

**Sub:-** Mines & Minerals – Department of Mines & Geology – O/o the District Mines and Geology Office, NTR District – Mining Lease for Lime Stone an extent of 160 Ha in Sy.No: 236 (P) of Jaggaipeta Village and Mandal, NTR District held by M/s.The Ramco Cements Ltd – Certification of production and Dispatch for the year 2009-10 to 2023-24(up to September 2023) - Reg

**Ref:-** Lr.Dt: 07.12.2023 from the M/s.The Ramco Cements pvt Ltd.


-o0o-

I invite attention to the subject and references cited, M/s.The Ramco Cements Ltd have requested to issue the limestone production and dispatches in connection to subject Mining Lease for submitting to MoEF and CC for EC expansion for the existing capacity from 1.1 MTPA to 2.5 MTPA for the subject Mine.

In view of the above, the production and dispatches particulars for the year from 2009-10 to 2023-24 (up to September 2023) certified copy furnished herewith.

**Yours faithfully,**

Encl: Annexure


  
District Mines & Geology Officer,  
NTR District,  
Vijayawada District.

Copy submitted to the Director of Mines and Geology, Ibrahimpatnam for favour of information.



### Annexure

RAMCO BUDAWADA LIMESTONE MINE (R.F) OF THE RAMCO CEMENTS LIMITED vide G.O.Ms.No:291, Dt: 30.10.2008 and ML executed on 17.03.2009, Extension Mining Lease validity for 50 Years vide G.O.Ms.No:59 Dt: 02.05.2017 Corrigendum for erlier orders vide GO.Ms.No:39, Dt: 03.06.2021 Expansion of Existing Environmental Clearance Capacity:from 1.10 MTPA to 2.50 MTPA PRODUCTION & DESPATCH (in MT) for the year 2009- 10 to 2023-24 (Upto September 2023)					
Sl.No	Year	Opening Balance (MT)	Production in MT	Despatch in MT	Closing Balance (MT)
1	2009-2010	0	0	0	0
2	2010-2011	0	0	0	0
3	2011-2012	0	0	0	0
4	2012-2013	0	0	0	0
5	2013-2014	0	0	0	0
6	2014-2015	0	1000	1000	0
7	2015-2016	0	4333	4333	0
8	2016-2017	0	1000	1000	0
9	2017-2018	0	240	240	0
10	2018-2019	0	97140	97140	0
11	2019-2020	0	85200	85200	0
12	2020-2021	0	4000	4000	0
13	2021-2022	0	323863	238600	85263
14	2022-2023	85263	466400	466400	85263
15	2023-2024 up to Sept- 2023	85263	755632	754503	86392
<b>Total</b>			<b>1738808</b>	<b>1652416</b>	

  
**District Mines and Geology Officer**

NTR District  
District Mines & Geology Officer  
Govt. of A.P.,  
Vijayawada, NTR District.



# Untitled Map

Write a description for your map.

## Legend

- Feature 1
- Feature 2
- Feature 3
- TIGER RESERVES AND CORRIDOR

ANNEXURE-III

RAMCO BUDAWADA LIMESTONE MINE

92.55km - N

TIGER RESERVES AND CORRIDOR

100.03 km - NE

141.58 km - ENE

68.69km - WSW

TIGER RESERVES AND CORRIDOR

109.64km - ESE

TIGER RESERVES AND CORRIDOR

132.67km - SE

TIGER RESERVES AND CORRIDOR

Google Earth

Image Landsat / Copernicus

Data SIO, NOAA, U.S. Navy, NGA, GEBCO



100 km



GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT

Rc.No.2093/2023/TO  
Dt. 21.12.2023.

O/o the District Forest Officer,  
NTR Division, Vijayawada.

Sri AVSRK Appanna, SFS.,  
District Forest Officer

Sub:- Request of the Ramco Cements Limited for authenticated list of Flora and Fauna in core and buffer zone areas of Ramco Budawada Limestone Mine (RF) over an extent of 160 ha in Budawada RF of Jaggayyapeta Mandal, NTR District – Furnishing of Authenticated list of Flora and Fauna - Regarding.

Ref:- 1. The Ramco Cements Ltd., Lr No. TRCL/Mines/ Bwd RF/674, Dt. 22.11.2023.  
2. FRO Vijayawada Rc.No.140/2023 Dated 14.12.2023.  
-///-

Adverting to the reference 1<sup>st</sup> cited, it is to inform that the Forest Range Officer, Vijayawada has submitted the authenticated list of Flora & Fauna as per Wild Life (Protection) Amended Act 2022 in the above subject area vide reference 2<sup>nd</sup> cited. The countersigned copy of the authenticated list is enclosed herewith.

Encl:- Above.

Sd/- AVSRK Appanna,  
District Forest Officer,  
NTR Division, Vijayawada.

To  
The President (Manufacturing),  
The Ramco Cements Limited.  
Kumarasamy Raja Nagar,  
Jaggayyapeta Mandal, NTR District., A.P.

// T.c.b.o.//

G. Suresh 21/12/2023  
Technical Officer



LIST OF FLORA AND FAUNA IN MINING LEASE AREA IN CORE/ BUFFER ZONE OF 10 KMS RADIUS OF RAMCO BUDAWADA LIMESTONE MINE(RF) OVER AN EXTENT OF 160.00Ha. IN BUDAWADA RESERVE FOREST, JAGGAYYAPET VILLAGE& MANDAL OF THE RAMCO CEMENTS LIMITED.

The important local species in the core/buffer zone is listed below.

SI.NO	LOCAL / COMMON NAME	BOTANICAL NAME
1	Veppa / Neem	<i>Azadirachata indica</i>
2	Chinta / Tamarind	<i>Tamarindus indica</i>
3	Rela/ Yellow Shower Tree	<i>Cassia fistula</i>
4	Pachare	<i>Dalbergia paniculata</i>
5	Dirisana/ Rain Tree	<i>Albizia saman</i>
6	Usiri / Amla	<i>Emblica officinalis</i>
7	Nallathumma	<i>Acacia nilotica</i>
8	Uthareni	<i>Achyrrathes aspera</i>
9	Thadi/ Asia Palmyra Palm tree	<i>Borassus flebellifer</i>
10	Ravi/ Peepal Tree	<i>Ficus religiosa</i>
11	Velaga	<i>Feronia limonia</i>
12	Tangedu	<i>Cassia siamea</i>
13	Kanchanam	<i>Bauhinia recemosa</i>
14	Gurivindha	<i>Abrus precatorius</i>
15	Jilledu	<i>Calotropis gigantia</i>
16	Marri Chettu/ Banyan Tree	<i>Ficus benghalensis</i>
17	Billudu	<i>Chloroxylon swietenia</i>
18	Sandra	<i>Acacia chundra</i>
19	Moduga	<i>Butea monspersma</i>
20	Narlinga	<i>Albizia amara</i>
21	Nerudu	<i>Syzigium cumini</i>
22	Mango	<i>Mangifera indica</i>
23	Subabul	<i>Leucena lucocephala</i>
24	Sarkari Thumma	<i>Prosopis julifera</i>



	<b>Climbers</b>	
25	Thuthurbeda	Abutilon indicum
26	Pillitheegalu	Aaparagus recemosus
27	Pitchidonda	Coccinia indica
	<b>Shrubs</b>	
28	Jaana	Grewia orbiculata
29	Regu	Zisypus jujuba
30	Tulasi	Ocimum sanctum
31	Thogaru	Morinda tinctoria
32	Gubbadada	Helecteres isora
	<b>Herbs</b>	
33	Gaddi Chamanthi	Tridax procumbens
34	Nela Usiri	Phyllanthus nunuri
35	Thummi	Leucas aspera
	<b>Grasses</b>	
36	Kondapulu	Chloris barbata
37	Thunga	Cyperus rotendus
38	Garika	Desmostachya bipinnata
	<b>Agriculture Crops</b>	
39	Paddy (vari)	Oryza sativa
40	Sugar cane (Cheruku)	Saccharum officinarum
41	Banana(Arati)	Musa accuminata
42	Chamanthi	Chrysanthemum indicum
43	Mokkajonna	Zea Mays



**List of Fauna in the Study area (core/buffer zone)**

Sl.No	Common Name	Scientific Name	Schedule	Part & S.No
<b>AMPHIBIANS</b>				
1	Indian Bull frog	<i>Hoplobatrachus tigerinus</i>	II	D & 13
2	Indian Pond Frog	<i>Phrynoderma hexadactylum</i>	II	D & 14
<b>REPTILES</b>				
1	Krait / Elapid Snakes	<i>Bungarus caeruleus</i>	II	C & 17
2	Indian Cobras	<i>Naja Naja</i>	I	C & 18
3	Russell's Viper	<i>Daboia russelii</i>	I	C & 30
4	Green tree snake / Colubrid Snakes	<i>Dendrelaphis punctulatus</i>	II	C & 16
5	Indian Black Turtle	<i>Melanochelys trijuga</i>	II	C & 9
<b>BIRDS</b>				
1	Purple Heron	<i>Ardea purpurea</i>	II	B & 43
2	Common Cuckoo	<i>Cuculus canorus</i>	II	B & 98
3	Common Wood Pigeon	<i>Columba palumbus</i>	II	B & 736
4	Red Junglefowl	<i>Gallus gallus</i>	II	B & 711
5	Common Myna	<i>Acridotheres tristis</i>	II	B & 955
6	House Sparrow	<i>Passer domesticus</i>	II	B & 940
7	Purple Sunbird	<i>Cinnyris asiaticus</i>	II	B & 983
8	Chestnut-headed Bee-eater	<i>Merops leschenaulti</i>	II	B & 24
9	Red-vented Bulbul	<i>Pycnonotus cafer</i>	II	B & 63
10	Black Drongo	<i>Dicrurus macrocercus</i>	II	B & 223
<b>MAMMALS</b>				
1	Indian hare	<i>Lepus nigricollis</i>	II	A & 13
2	Jackal	<i>Canis aureus</i>	I	A & 22
3	Wild Pig	<i>Sus scrofa</i>	II	A & 23
4	Indian Porcupine	<i>Hystrix indica</i>	I	A & 120
5	Jungle Palm Squirrel	<i>Funambulus tristriatus</i>	II	A & 32
6	Spotted Deer/Chital	<i>Axis axis</i>	II	A & 11

Schedule specified in wild life protection Act, 1972 amended upto 2022, the available species in core / buffer zone of 10kms radius of Ramco Budawada Limestone Mine (RF) over an extent of 160.00 Ha. in Budawada reserve forest, Jaggayyapeta village & Mandal, NTR district of The Ramco Cements Limited. The lease area does not have any hiding place for wild life and hence they are not spotted in the lease area.

*A. Vidya S...*  
Forest Section Officer  
Jaggayyapeta.

*[Signature]*  
Forest Range Officer  
Vijayawada

//Counter Signed//  
*[Signature]*  
District Forest Officer  
N.T.R. Division, Vijayawada.





## THE RAMCO CEMENTS LIMITED

RCL/Mines/ 693

Date.26.12.2023

The Chief Wild Life Warden,  
Government of Andhra Pradesh,  
Forest Department,  
Aranya Bhavan, PVS Land mark,  
Near APIC Towers,  
Mangalagiri – 522 503,  
Andhra Pradesh.

Sub: Submission of Wild Life Conservation Plan covering Wild Life Conservation Measures – For our Cement Plant and 5 Nos. of Captive Limestone mines of The Ramco Cements Limited located in Jaggayyapet Mandal, NTR District, Andhra Pradesh – Request for approval - Reg.

Ref: Letter No. 21024/19/2022/WL-2, Dt. 29.06.2023 addressed to The Chief Conservator of Forest, Rajahmundry from Principal Chief Conservator of Forests (WL) & Chief Wild Life Warden, A.P.

Respected Sir,

We, The Ramco Cements Limited established its Kumarasamy Raja Nagar (KSR Nagar) Cement Plant in the Year 1986-1987 at Dharmavarapupadu Thanda Village, Jaggayyapet Mandal, NTR (formerly Krishna) District of Andhra Pradesh State to manufacture & despatch of clinker & cement, and power generation. The cement produced at this unit is marketed in the brand name of 'RAMCO' in Andhra Pradesh and other states of India.

The present installed Clinker capacity of the cement plant is 4.685 Million Tonne per Annum (MTPA) with three Clinker manufacturing lines in operation with cement production capacity of 3.65 MTPA. The limestone requirement of clinker manufacturing is 6.60 MTPA.

Presently, the required limestone is being met from the captive limestone mines of Jayanthipuram Limestone Mine (North Band), Jayanthipuram Limestone Mine (South Band), Ravirala Limestone Mine (RF) and Ramco Budawada Limestone Mine (RF) located at Jaggayyapet Mandal, NTR district, Andhra Pradesh. Another mining lease - Ravirala Limestone Mine (Revenue) is proposed to operate, for which approvals are in process. These mining leases spread over an area of 689.94 Ha with about 236.884 Million Tonne of Mineral reserves.

Out of total Mining lease area of 689.94 Ha, 220.72 Ha area is under Reserve Forest and the remaining 469.22 Ha located in Revenue area spread Jayanthipuram, Ravirala, Agraharam and Jaggayyapet Villages of Jaggayyapet Mandal, NTR District, Andhra Pradesh.

Contd....2





## THE RAMCO CEMENTS LIMITED

:: 2 ::

The details captive mines are as below:

S. No	Name of the mine	Extent in Ha.	Location	EC capacity in MTPA	Lease valid upto	Distance from plant
1	Jayanthipuram Limestone Mine (North Band)	256.54	Jayanthipuram (V) & Jaggayyapet Mandal, NTR dist.	1.80	15.07.2032	1.0 km
2	Jayanthipuram Limestone Mine (South Band)	88.35	Jayanthipuram (V) & Jaggayyapet Mandal, NTR dist.	1.75	18.12.2034	2.0 km
3	Ravirala Limestone Mine (RF)	60.72	Ravirala (V) & Jaggayyapet Mandal, NTR dist.	2.75	26.06.2051	5.0 km
4	Ramco Budawada Limestone Mine (RF)	160.00	Jaggayyapet Village & Mandal, NTR dist.	1.10	16.03.2059	5.5 km
5	Ravirala Limestone Mine (Revenue)	124.33	Ravirala (V) & Jaggayyapet Mandal, NTR dist.	Yet to be received	30.09.2047	6.0 km

As per the Environmental Clearances obtained for captive mines & cement plant, we have to prepare a Wild Life Conservation Plan in consultation with State Forest Dept with special emphasis to Schedule - I species present if any in the respective core and buffer zones of above areas.

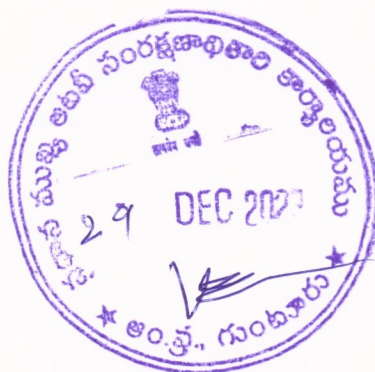
In order to meet the compliance for the EC conditions for Wild Life Conservation Plan with specific reference to Schedule - I species [as per Wild Life (Protection) Amendment Act 2022], we have prepared the Wild Life Conservation Plan in respect of our integrated cement plant and for 5 Nos. of captive mines located at Jaggayyapet Mandal, NTR District, Andhra Pradesh and proposed the funds for conservation of wild life.

We humbly request your good selves to kindly process and to arrange for approval of Wild Life Conservation Plan by the concerned authorities for implementation for our Jayanthipuram integrated Cement plant and for 5 Nos. of captive mines as part of compliance of EC conditions.

Thanking you,  
Yours faithfully,  
For The Ramco Cements Limited

(ASHISH KUMAR SRIVASTAVA)  
President – Manufacturing

Encl.: Wild Life Conservation Plan.





**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

Rc.No.21024/19/20  
22/WL-2  
Dated:29/06/2023

Office of the Prl.Chief Conservator of Forests & Head of  
Forest Force, Andhra Pradesh, Mangalagiri

**Sri Y. Madhusudhan Reddy, I.F.S.,**  
Prl. Chief Conservator of Forests (WL) &  
Chief Wildlife Warden

\*\*\*\*\*

**Sub:**Andhra Pradesh Forest Department - Wildlife - M/s The Ramco Cements  
-Ltd., Jaggayyapet, NTR District - Budawada Limestone Mine over an extent  
of 160 ha. in JaggaiPET - Instructions issued - Reg.

**Ref:-**

1. Sr. President (Mfg.), The Ramco Cements Ltd., Jaggayapet  
RCL/CWLW/13/2022-23, dated 11.05.2022.
2. Sr. President (Mfg.), The Ramco Cements Ltd., Jaggayyapet  
RCL/CWLW/14/2022-2023 dated 11.05.2022.
3. Sr. President (Mfg.), The Ramco Cements Ltd., Jaggayyapet  
RCL/CWLW/15/2022-2023 dated 11.05.2022.
4. PCCF (WL) & CWLW Rc.no.21024/19/2022-WL-2, dated 28-07-2022.
5. Sr. President (Mfg.), The Ramco Cements Ltd., Jaggayapet  
RCL/Mines/BWDRF/95/478 dated 08.06.2023

\*\*\*\*\*

Attention is invited to the references 1st to 4th cited. A copy of the  
reference 5th cited is enclosed herewith.

In the reference 5th cited, the Sr. President (Mfg.), The Ramco Cements  
Ltd., Jaggayapet has informed that, there are no Schedule-I Species existing in  
the Core and Buffer Zone of the Ramco Budawada Limestone Mine Area in extent  
of 160 ha. in JaggaiPET (V), Jaggayyapet Mandal, NTR Dist., Andhra Pradesh.

The Chief Conservator of Forests, Rajahmundry is requested to go through  
the references cited, to re-assess the Flora & Fauna within the Zone of Influence  
and to prepare Wildlife Conservation Plan for Schedule-I Fauna existing.

The Chief Conservator of Forests, Rajahmundry is also requested to  
prepare the map neatly of each mining lease, duly superimposing on the SI sheet  
duly showing the RFs and Boundary of NPs, WLS, ESZ boundary etc., and duly  
countersigned by the District Forest Officer, Vijayawada and Chief Conservator of  
Forests, Rajahmundry and submit to this office.

**Shanti Priya Pandey Ifs**  
for Prl. Chief Conservator of Forests (WL) &  
Chief Wildlife Warden, A.P.

To



The Chief Conservator of Forests, Rajahmundry

Copy to the District Forest Officer, Vijayawada (w.e) for information.

Copy to the Sr. President (Mfg.), The Ramco Cements Ltd., Kumaraswamy Raja Nagar, Jaggayyapet Mandal, Jaggayyapet - 521457, NTR District, A.P. for information and with a request to co-ordinate with the concerned field officers. (email ID- mcljpm@ramcocements.co.in)



Sy.No.236 (P)

- PLATE: II

EXTENT :160.00 Ha. SCALE :- 1:2000

SCALE :- 1:2000



**RAMCO BUDAWADA LIMESTONE MINE (RF)**  
OF THE RAMCO CEMENTS LIMITED  
Jaggayyapet Village & Mandal, N.T.R. District, AP.

REVIEW OF MINING PLAN FOR THE  
PROPOSAL PERIOD : 2024-2025 TO 2028-2029

SURFACE PLAN		
PLAN No.BWD/LEASE/DGPS	DATE	01.11.2023
MINES SURVEYOR	AGENT	P.JANI REDDY
K.MALLIKARJUNA	M.M	P.BALAJI KOTESWARA KUMAR

THIS IS TO CERTIFY THAT THE ABOVE PLAN IS CORRECT AND PREPARED  
BASED ON THE DGPS LEASE MAP AUTHENTICATED BY GOVERNMENT OF A.P

K.MALLIKARJUNA  
Mines Surveyor

K.ANJANEYULU  
Qualified Person

N.SIVA NAGARAJU  
Geologist

P.BALAJI KOTESWARA KUMAR  
Mines Manager



## **ANNEXURE – VI A**

### **PREVENTIVE MEASURES TAKEN FOR NOISE CONTROL AND DUST SUPPRESSION.**

#### **Activities related to Noise mitigation measures**

- ❖ The noise from the mining operations is dissipated within the mining lease area.
- ❖ Workers are provided with ear muffs to avoid health implications.
- ❖ Greenbelt is provided all along the crusher area
- ❖ Limiting Time exposure of workers to excessive noise

#### **Activities related to Dust Suppression and mitigation measures**

- ❖ Bag filter is provided to control emissions from the crusher.
- ❖ Split Polythene curtain strips are provided to preventive any escape of dust
- ❖ Water sprinkling is being done continuously on approach road
- ❖ Greenbelt is provided all along the crusher area



## SUMMARY OF PUBLIC HEARING ISSUES AND ACTION PLAN

S.NO	ISSUE	RESPONSE	ACTION PLAN	BUDGET
<b>1. EMPLOYMENT</b>				
a.	Preference to be given for local educated villagers. for employment in the industry.	Nearly 63% of total employment in Cement Plant and its associated captive Mines including subject mine is from Jaggaiahpet Mandal. Out 1624 total employees (on-roll and outsourced), 1031 members are from Jaggaiahpet Mandal.	Preference is being given to locals for providing employment	It is a continuous process.
<b>2. ENVIRONMENT &amp; POLLUTION-RELATED ISSUES</b>				
a.	Management to carryout mining operations without causing air, water and noise pollution. Latest equipment and machinery shall be utilized during mining operations for control the pollution control	<p>Mining operations are being carried out as per MOEFCC, IBM, DGMS norms implementing all pollution control measures to mitigate dust emissions during mining like drilling operations will be carried out by wet drilling technique. Mobile water sprinklers are being used on haul roads to control fugitive dust emissions. Blasting is being carried out as per the DGMS guidelines for reduction of vibrations caused due to blasting</p> <p>Green belt is being developed around the mine lease boundary which will help to capture fugitive emissions, attenuate the noise generated in the plant and overall increase the aesthetic view of project site and acts as a sink of pollutants.</p> <p>All pollution control measures will be continued to reduce the impact on surrounding environment.</p>	<p>The transportation of limestone from the mining lease to the cement plant by railway wagon, for which EC amendment is obtained.</p> <p>All pollution control measures are being implemented as per the respective EMP and carrying out efficient monitoring, as per the CPCB guidelines using Fine Dust Samplers &amp; Respirable Dust Samplers.</p>	<p>Implemented railway wagon loading and associated equipment for which EC amendment order is issued. In this proposal, capital cost for environmental protection measures are:</p> <ul style="list-style-type: none"> <li>• Shed for stacker &amp; reclaimer is Rs. 1392 lakh.</li> <li>• Erection of Air Pollution Control Equipment – Rs. 278.6 lakh.</li> <li>• Total - Rs. 1670.60 lakh.</li> </ul> <p>The recurring cost of environmental protection measures for Budawada mine is around Rs. 20 lakh. The expenditure made towards recurring cost of environmental protection measures for Budawada mine in the financial year 2022-2033 is around Rs. 22 lakh and the details are enclosed as Annexure – 7(A).</p>



S.NO	ISSUE	RESPONSE	ACTION PLAN	BUDGET
b.	Management to develop the Green Belt programme in the project area surrounding villages	The industry developed greenbelt in an area of 3.5 ha within the mining lease area.  Saplings are being provided on free of cost for the local villages / town, as per their requests.	Greenbelt will be maintained as per CPCB norms.	Rs. 5.0 lakh per annum for Greenbelt development (as part of EMP) within mining lease. Saplings will be distributed as per the requests from the local villages.
c.	To supply the tree guards and see that the saplings planted are survived.	Tree guards are provided on free of cost for the local villages / town, as per their requests.		Tree guards are provided as per the request. The cost incurred is Rs. 2.75 lakh in the financial year 2022-2023.
<b>3. VILLAGE DEVELOPMENT</b>				
a.	The Management to contribute or else to construct Pollavagu bridge which will be very useful to the villagers as it is a long pending issues.	We will coordinate Government agencies to facilitate discussion.		We will coordinate Government agencies to facilitate discussion.
b.	The industry to develop Budawada village on par with Jayanthipuram.	Nearly Rs. 1 crore per annum is being spent towards Social welfare activities in the surrounding area including Budawada village.		Nearly Rs. 1 crore per annum is being allocated towards CSR activities. Expenditure made on various CSR activities carried out in the financial year 2022-2023 is about Rs. 120.11 lakh and the details are enclosed as Annexure 7(B).
c.	The Industry Management to support in construction of bridge from Reddynaik Thanda to Jaggayyapeta as the villages are facing problems during rainy season.	Bridge is constructed with Government funds and made available in the year 2019.		Bridge is constructed with Government funds.
d.	Provide infrastructural facilities like school, Anganwadi, library etc those would be helpful for the villagers.	Nearly Rs. 1 crore per annum is being spent towards Social welfare activities in the surrounding area including Budawada village.		Expenditure made on various CSR activities carried out in the financial year 2022-2023 is about Rs. 120.11 lakh and the details are enclosed as Annexure 7(B).



S.NO	ISSUE	RESPONSE	ACTION PLAN	BUDGET
e.	Supply of drinking water through RO plants to surrounding villages	4 Nos. of RO plants erected in the nearby villages (DP Thanda, Jayanthipuram, Ravirala & Nawabpet) for drinking water facility.	Drinking water is being supplied to the local villages in summer season, upon their request.	Spent Rs. 18.2 Lakh for installation of 4 Nos. of RO plants erected in the nearby villages (DP Thanda, Jayanthipuram, Ravirala & Nawabpet).
<b>4. HEALTH CARE</b>				
a	The Management for the co-operation in development of Jaggayyapeta Hospital and to adopt the hospital and provide necessary facilities.	Oxygen plant is constructed at Jaggayyapet Community Health Centre.	Ambulance facility is being extended during emergencies.	Rs. 33.20 lakh spent for construction of Oxygen plant at Jaggayyapet Community Health Centre in the financial year 2021-2022.
b	Conduct the medical camps in the surrounding villages and to distribute medicines with free of cost to the villagers.	Medical camps are being conducted in the surrounding villages with medicine on free cost.	Medical camp will be conducted once in a month in Jayanthipuram, Ravirala, K Agraharam and Budawada with medicines on free of cost.	Around Rs. 12 lakh per annum is being contributed for conducting medical camps in nearby villages and supplying medicines on free of cost (budget under CSR).
c.	Veterinary camps shall also be conducted in addition to the medical camps in the villages.			Rs. 1.0 lakh proposed in the financial year 2024-2025 for the same.
<b>5. EDUCATION</b>				
a.	The Industry Management should allow for admission of their village children in the school being run by the Management.	Out of 866 students attending the school (operated by the management in the township with CBSE syllabus), nearly 680 students are from local villages.	It is a continuous process.	It is a continuous process.
b.	Skill development programmes are to be implemented under CSR activities. Apprenticeship, Project work, Trainings shall be given to local educated youth and provide placements to eligible candidates.	Skill development programmes like Vocational Training to local ITI passed students is being conducted. Project work and Trainings being given to local educated youth and providing placements to eligible candidates.		Nearly Rs. 25.50 lakh spent in financial year 2022-2023 towards contribution of stipend to Apprenticeship for local villagers. Nearly 40 students are beneficiaries per annum. Rs. 50 lakhs are budgeted for financial year 2023-2024 & 2024-2025.



S.NO	ISSUE	RESPONSE	ACTION PLAN	BUDGET
<b>6. OTHERS</b>				
a.	The existing mine in Budawada is not yet started and why it is proposed to increase the production capacity in the mine.	Limestone reserves of Jayanthipuram and Ravirala will get exhausted shortly and hence the present proposal is made for future needs of the cement plant.		
b.	The Management to allow the farmers to cultivate the land in ML area until the industry starts the mining activity.	It is not considered as we are carrying out the mining operations and this mine is located in forest lease.		
c.	If the mining operations intersect the ground water table, this will deplete the ground water table.	All the precautions as per the IBM, MoEF&CC and Ground Water Department are being taken while intersecting the water table. NOC obtained from PR&RD Department, Govt. of AP to work below water table.		
d.	Deep mining shall not be taken up and the mine pits shall be closed and fencing shall be provided as and when the mineral is extracted as animals, children etc., may fall in the mining pits.	Mining activities are being carried out as per IBM, DGMS and MoEF&CC. The guidelines as per the Final Mine Closure Plan will be implemented at conceptual stage. Ultimate pit level is at (+)17m RL (48 m ground level) as per present conceptual plan. However, the mineral is existing up to (-)30 m RL.	Compound wall / fencing is proposed at mine boundary to avoid entry of animals, children, etc.	Rs. 2.0 crore proposed for construction of compound wall / fencing.
e.	Enquired about the Mining permission	The Mining Lease was granted Vide G.O. Ms. No 2914 dated 30.10.2008 by Industries & Commerce (M.II) Department.		



**PUBLIC HEARING COMMITMENTS ALONG WITH ACTION PLAN AND BUDGET (Rs Lakhs)**

S. No	Activity		Year					
			2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	Total
1	Development of Jaggayyapet & nearby Hospitals	Physical No.	Covid	1				
		Village	Surrounding	Jaggaiahpet				Rs. 48.1 lakhs
		Budget Rs Lakh	Rs. 14.9 lakh	Rs. 33.20 lakh				
2	Conducting free medical camps in surrounding villages & free medicines	Physical No.						
		Villages	Surrounding	Surrounding	Surrounding	Surrounding	Surrounding	
		Budget Rs Lakh	Rs. 3.93 lakh	Rs. 4.82 lakh	Rs. 6.37 lakh	Rs. 12.0 lakh	Rs. 12.0 lakh	Rs. 39.17 lakh
3	Conducting eye testing camps & veterinary camps	Physical No.					2 veterinary camps	
		Villages			Surrounding	Surrounding	Surrounding	
		Budget Rs Lakh			Rs. 0.40 lakh	Rs. 1.0 lakh	Rs. 1.0 lakh	Rs. 2.4 lakh
4	Supply of drinking water through RO plants to surrounding villages	Physical No.	2	1	1			
		Village	Jayanthipuram & DP Thanda	Nawabpet	Ravirala			
		Budget Rs Lakh	Rs. 12.7 lakh	Rs. 2.38 lakh	Rs. 3.1 lakh			Rs. 18.18 lakh
5	Domestic water supply schemes and pipe networks	Physical No.		2	2			
		Village		Jayanthipuram & DP Thanda	Jayanthipuram & DP Thanda			
		Budget Rs Lakh		Rs. 11 lakh	Rs. 13.45 lakh			Rs. 24.45 lakh
6	Providing saplings to villages & tree guards	Physical No.			1			
		Village			Jayanthipuram			
		Budget Rs Lakh			Rs. 2.75 lakh			Rs. 2.75 lakh
7	Skill development programmes under Apprenticeship, Project work, Trainings shall be given to local educated youth	Physical No.	Nearly 40 students	Nearly 40 students	Nearly 40 students	Nearly 40 students	Nearly 40 students	
		Villages	Surrounding	Surrounding	Surrounding	Surrounding	Surrounding	
		Budget Rs Lakh	Rs. 25 lakh	Rs. 24.8 lakh	Rs. 25.50 lakh	Rs. 25 lakh	Rs. 25 lakh	Rs. 125.3 lakh
8	Admission to local students in company school	Physical No.	----		680	680	680	
		Villages		Surrounding	Surrounding	Surrounding	Surrounding	
		Budget Rs Lakh		Rs. 1.84 lakh	Rs. 2 lakh	Rs. 2 lakh	Rs. 2 lakh	Rs. 7.84 lakh
9	Construction of Pollavagu bridge	Physical No.	RCL will coordinate with Government agencies to facilitate discussion.					
		Villages						
		Budget Rs Lakh						
10	Construction of bridge from Reddynaik Thanda to Jaggayyapet	Physical No.	Bridge is constructed with Government funds and made available in the year 2019.					
		Villages						
		Budget Rs Lakh						
			56.53	78.04	53.57	40	40	
	Total Amount Spent So far		188.14			-		
	Amount Proposed in next two years					80		

**THE RAMCO CEMENTS LIMITED**  
**Ramco Budawada Limestone Mine (RF)**  
**ENVIRONMENTAL PROTECTION ACCOUNT - RECURRING EXPENDITURE**  
**DETAILS - FINANCIAL YEAR 2022-23**

S. No.	Description	For the year 2022-2023, Lakh Rs.
1	Pollution Control - Nonel detonators	6.31
2	Pollution Control - Water Sprinkling	6.14
3	Pollution Monitoring	1.28
4	Wet drilling	0.07
5	Greenbelt	8.11
6	Reclamation	0.00
<b>Total</b>		21.91



**The Ramco Cements Limited**  
**CSR Details for the year of 2022-23**

S.NO	Project	Amount spent, Rs.
1	Financial Support to Sreyassu Organization (PLHIV) Towards Raw Material for Preparing Nutritional Powders and providing Supportive Medicines, Krishna DT, AP - Apr-22,to March-23	172710
2	Medical Camp Expenses at Ravirala, Jayanthipuram, K Agraharam & Budawada village, Krishna Dist, AP	444453
3	Financial Support to Iron,Calcium and providing Supportive Medicines on the eve of womens day at Jayanthipuram Village, Krishna DT, AP	19998
4	Eye Camp conducted at Ravirala & Jayanthipuram Village, Krishna Dist,AP	38600
5	Providing Supportive Medicines to Pilfrims of Vedadri Lakshmi Narasimha Swami Vaari Kalyanotsavam, Vedadri, Krishna DT, AP - May22	20000
6	Supply of Water for Agriculture purpose to Jayanthipuram Village and Domestic Water Supply For Dharmavarappadu Thanda & Jayanthipuram Villages, Apr - March-23- AP	8705817
7	5000nos of Plantation of saplings in and around Jayanthipuram village at Jaggapetta mandal, Krishna Dist	275000
8	Financial assistance towards Construction of house to Sri Gogulothu Chinna at Jayanthipuram Village, Krishna Dist	20000
9	Financial Assistance towards Installation Surveillance CCTV Cameras at State Border villages Balusupadu and Annavaram, AP	300000
10	Medical Camps conducted in Meerjapuram, Kalvatala, Kanakadripalli, Kolimigundla, Nainapalli, Petnikota and Chinatalayapalli Villages for Dec22 & Jan23, Krishna Dist. AP	98000
11	Eye Camp conducted at Ravirala & Jayanthipuram Village, Krishna Dist,AP	2072
12	Medical Camps conducted in Meerjapuram, Kalvatala, Kanakadripalli, itikyala and Mirjapuram Villages for Feb23, Krishna Dist. AP	56000
13	Electricity Charges incurred towards Borewell water supply to Meerjapuram village, Krishna Dist, AP	100000
14	Donation of Cement for construction of Chruch at Nuthanagunta Palem Village, Kasimkota Mandal, Anakapalli Dist, Ap - 10Mt - 200 Bags	40000
15	Donation of Cement for construction of Approach CCRoad to TALLUPULAMMA Temple, Gobburu Village, Gobbur Village, Kaimkota, Anakapalli Dist, AP	70000
16	SUPPLY AND INSTALLATION OF 2000LPH R.O UNIT WITH SS TANK 3000 LTRS, RAW WATER TANK 5000 LRT AT RAVIRALA VILLAGE GSN305/2022/000260	303738
17	Supply and Installation of 2KM HDPE pipeline for pumping of water between two water tanks at Jayanthipuram village as a part of CSR activity	902655
18	CONSTRUCTION OF 50KL Water tank at DP Thanda	441831
	<b>Total</b>	<b>12010874</b>

## ANNEXURE-VIII

## PROJECT COST BREAK UP (Rs. In Lakhs)

Ramco Budawada Limestone Mine (RF): Capital cost from 1.10 to 2.50 MTPA						
Type of Machinery	Capacity of each unit	Existing Machinery 1.10 MTPA	Additional requirement from 1.1 to 2.5 MTPA	Total requirement of Machinery for 2.5 MTPA	Cost /unit in lakh Rs.	Total cost in Lakh Rs. (from 1.1 to 2.5 MTPA)
Backhoe Excavators-Sk 380	2.3 Cu.m	1	1	2	90	90
Backhoe-Kobalco-220	1.1Cu.m	1	0	1	0	0
Tippers	30 MT	6	3	9	60	180
Wagon Drill & Air Compressor	115 mm dia	1	0	1	0	0
Cabin Drill with 550 cfm compressor	115 mm dia	0	1	1	90	90
Bull Dozer	--	1	0	1	0	0
Rock breaker	20tonnes	0	0	0	0	0
Water ranker	10 KL	1	0	1	0	0
Jeep	---	1	0	1	0	0
BMD Truck	6 Tonne	0	1	1	40	40
Total		12	6	18		400



By e-mail

**GOVERNMENT OF INDIA  
MINISTRY OF MINES  
INDIAN BUREAU OF MINES  
OFFICE OF THE REGIONAL CONTROLLER OF MINES, HYDERABAD**

No. AP/KSN/MP/LST-30/HYD

Dt : 21/04/2023

Shri/M/s. THE RAMCO CEMENTS LIMITED ,  
5th Floor, Auras Corporate Centre 98A, Dr Radhakrishanan Salai , Mylapore Chennai

**Sub:** Approval of Modified Mining Plan in respect of Budawada Limestone Mine (Reserved Forest) of M/s. The Ramco Cements Ltd. over an extent of 160.00 ha. in Sy.No. 236 (P) of Budawada R.F, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh State submitted under Rule 17(3) of MCR, 2016.

Ref: Your applicant ID- 638-Mine code 38APR10031, Online submitted Modified Mining Plan in  
MPAS Portal dt. 28.02.2023.

Sir,

In exercise of the power conferred by the clause (b) of sub-section (2) of Section-5 of Mines and Minerals (Development and Regulation) Act, 1957(as amended up to 27<sup>th</sup> March, 2015), and Powers delegated by Controller General, Indian Bureau of Mines vide Order no. S.O.1857(E) dated 18<sup>th</sup> May,2016, I hereby approve Modified Mining Plan (including Progressive Mine Closure Plan) in respect of Budawada Limestone Mine (Reserved Forest) of M/s. The Ramco Cements Ltd. over an extent of 160.00 ha. in Sy.No. 236 (P) of Budawada R.F, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh State submitted under Rule 17(3) of MCR, 2016.

The approval is subject to the following conditions:

1. The Modified Mining Plan is approved without prejudice to any other law applicable to the Mining lease area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
2. The proposals shown on the plates and/or given in the document is based on the lease map/sketch submitted by the lessee and is applicable from the date of approval.
3. It is also clarified that the approval of the aforesaid Modified Mining Plan does not in any way imply the approval of the Government in terms of any other provision of the Mines and Minerals (Development & Regulation) Act, 1957, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rule 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
4. Indian Bureau of Mines has not undertaken verification of the Mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold

shown on the ground with reference to lease map & other plans furnished by the applicant.

5. The execution of approved Modified Mining Plan shall be for the Development & Production proposals related to Limestone only.
6. At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
7. It shall be mandatory for the project proponent, abstracting ground water, to obtain. **NO Objection Certificate** from Central Ground water Authority or the concerned State/Union Territory Ground Water Authority, as the case may be.
8. The production proposals pertain for the period 2023-24 is subject to EC for approved quantity.
9. Next Financial Assurance shall be due for submission on 01.04.2024.
10. The Next Review of Mining Plan shall be submitted at least 180 days before the expiry of the Mining Plan.

Yours faithfully,

**(R.R.Dongre)**

**Regional Controller of Mines**

Copy without enclosure forwarded for information to Shri.K.Anjaneyulu, Qualified Person

**(R.R.Dongre)**

**Regional Controller of Mines**

Not on first Two copies:

Copy forwarded for kind information to:

- (i) The Controller of Mines (SZ), Indian Bureau of Mines, Bengaluru.
- (ii) The Director of Mines Safety, Hyderabad
- (iii) The Director, Mines and Geology, Govt. of Andhra Pradesh State.
- (iv) Mine file/Guard file.

**(R.R.Dongre)**

**Regional Controller of Mines**



Approved

## Chapter 1 : General Information

### 1.1 : Lease Details

IBM Registration Number :	IBM/638/2011
Lease Code :	92983401
Mine Code :	38APR10031
Name of Lessee :	THE RAMCO CEMENTS LIMITED
Address of Lessee :	5th Floor, Auras Corporate Centre 98A, Dr Radhakrishanan Salai , Mylapore Chennai
Type of Lessee :	Private
Name of Mining Lease :	BUDAWADA(160.00 HA)
State :	ANDHRA PRADESH
District :	KRISHNA
Tehsil/ Taluk/ Mandal :	Jaggayyapeta
Village :	JAGGAYYAPETA URBAN
Lease Area (Ha) :	160
Forest Area (Ha) :	160.0000
Name of Minerals :	LIMESTONE
Name of associated minerals :	



Type :	Existing Lease
Period of the proposal (FY) from :	2022 - 23
Period of the proposal (FY) to :	2023 - 24
Type of working :	Opencast
Nature of Use :	Captive
Category of Mine :	Category A

**1.1.1 : Initial/subsequent Lease grant details**

Grant	From	To	Lease deed execution date	Lease registration date
Initial Grant	17/03/2009	16/03/2029	17/03/2009	17/03/2009
1st Extension	17/03/2009	16/03/2059	01/12/2022	18/01/2023

**1.1.2 : Mining Plan Submission Criteria Details**

Type of Document :	Modification Of Mining Plan Under Rule 17(3) Of MCR, 2016
Reason/s For Modification :	Increasing The Production From 1.10 MTPA To 2.50 MTPA And To Obtain The Environmental Clearance For 2.50 MTPA.
Period for which modification is proposed :	2022-2023 to 2023-2024

**1.2 : Land Ownership Details**

View Land Ownership Details Excel	<a href="#">Land_Ownership_Details.xlsx</a>
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**1.3 : Existing Lease**

Date of Execution :	17/03/2009
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**1.3.1 : Approval of earlier Mining Plan & Its Subsequent Review in Chronological Order**

S.N.	Letter Number	Date	Period		Type Of Approved Document	Remark
			From	To		
1	MS/AP/KSN/Lst-138-S Z	02/04/2007	17/03/2009	31/03/2014	Mining Plan	mining Plan
2	AP/SN/MP/LST-30-HY D	27/10/2014	01/04/2014	31/03/2019	Scheme Of Mining	1St scheme of Mining
3	AP/KSN/MP/LST-30-H YD	17/12/2018	01/04/2019	31/03/2024	Modification Of Mining Plan	Modification in the Approved MP for extension of ML period for 50 years and reduced the production from 205 to 1.1 MTPA.
4	AP/KSN/MP/LST-30/H YD	08/07/2021	01/04/2021	31/03/2024	Modification In RMP	Modification in the Approved MP for incorporation of Railway siding to transport the limestone through wagon.

**1.3.2 : Partial Surrenderd Area During Stages of Operations in Chronological Order**

Sr.no	Date	Supplementary Surrender order / Letter Number	Supplementary Lease Deed Date	Final Retained Area over which current Mining Plan is Prepared ( ha)
1	Nil	Nil	Nil	Nil

**1.3.3 : Transfer of Lease Area Subsequent to Grant**



Sr.no	Transfer of lease deed letter number	Date of execution of Transfer lease deed	Name of Transferor	Nature of block transferred		
				Granted through auction	Other than through auction for captive use	Other than through auction for non captive use
1	Not applicable	Nil	Nil	Nil	Nil	Nil

### 1.3.4 : Statutory Compliances

#### 1.3.4.1 : Environment Clearance

Applicable :	Yes
Letter No :	J-11015/150/2008-IA-II(M)
Date :	10/12/2009
Validity :	16/03/2059
ROM Mineral :	1100000.0000 (Tonnes)

#### 1.3.4.2 : SPCB Approvals

Letter No :	APPCB/VJA/VJA/488/HO/CFO/2021
Approval of :	Consent To Operate
Date :	07/11/2022
Validity :	31/01/2028
ROM Mineral :	1100000.0000 (Tonnes)

#### 1.3.4.3 : Forest Clearance

Applicable :	Yes
Letter No :	8-56/2005-FC
Date :	22/12/2011
Validity :	16/03/2059
Area (Ha) :	160.0000

**1.3.4.4 : Land Acquisition Details**

Total Area Acquired in hectare:	160.0000
Total Amount Paid (INR) :	126654700.0000

**1.3.5 : Mine Location Details**

Toposheet Number :	65D/1 ( Open series no.E44U1)
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**1.3.5.1 : Location of Boundary Pillars**

View Location of Boundary Pillars Excel	<a href="#">Location_boundary_pillar (Budawada).xlsx</a>
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**1.3.6 : Owner/Nominated Owner Details**

Name	PAN of owner / Nominated Owner	Address of owner/ Nominated Owner	Mobile Number	Email	Please attach Minutes of Board Resolution in case of Nominated Owner
SHRI PR VENKETRAMA RAJA	AAYPV5127H	5th Floor, Auras Corporate Centre98A, Dr Radhakrishanan Salai , MylaporeChennai	9094003219	cvc@ril.co.in	<a href="#">Board Resolution for Nominated Owner.pdf</a>



**1.3.7 : Qualified Person Details as per M(OAHCEM)CR, 2016**

S.N.	Prefix	Name	PAN of QP	Address	Mobile no.	Qualification	Exp in years as prescribed under the rule	Email
1	Mr	K ANJANEYULU	CIDPK2581B	The Ramco Cements Ltd, KSR Nagar,-521457, Jaggayyapet Mandal, NTR Dist., AP	9963030635	MSc Geology	13	anjan@ramcocements.co.in

## Chapter 2A : Geology & Exploration

### 2A.1 : Geology

#### 2A.1.1 : Topography

Terrain :	Undulating
Highest Level (m) from MSL :	74.0000
Lowest Level (m) from MSL :	60.0000
Average Level (m) from MSL :	65.0000
Drainage Pattern :	Others
Order of Stream :	Order 4 and above
Min Dist of Stream from Lease Area(m) :	0.0000

#### 2A.1.2 : Details of Physiographic features and Infrastructures available in and around the lease/ block area

Description	Location if existing Within the lease/block area	Distance from boundary periphery in kms, if existing outside the lease/block area. (within 5.00Kms)	Remark if any
River/Nallah/Reservoir	0	3.70	krishna river towards South
Public roads (Tar road, cart road)	0	0.12	Jaggayyapet to Budawada Towards North
Railway track	0.14	0	South Central Railway Line from JPT to Mellacheruvu
Human settlements	0	2.3	Kouthvari Agraharam
Archaeological monuments/ places of worships/public utilities etc	0	4.77	Muktyala remple



Wild life sanctuaries/ national parks	0	0	Nil
Coastal Regulation Zone (CRZ)	0	0	Nil
Powertransmision lines/telephone lines	0	0	Nil
Firing range	0	0	Nil
Ordinance factory	0	0	Nil
grazing land/ burial ground or cremation ground	0	2.50	Kouthvari Agraharam
Any other specify	0	0	Nil

Particulars	Distance from lease boundary in kms
Near by village	2.30
Nearest Railway station	25.00
Nearest Port	68.00
Distance of SH/NH from lease area	6.20

2A.1.3 : Regional Geology

<p><b>Regional Geology</b></p> <p>The Lithological units of this Jaggayyapet area comprise limestone, shales and quartzites belonging to the Pre-Cambrian sedimentary formations, which constitute the North eastern part of the Palnad Basin. They are flanked in the West, North and East by the granites and gneisses of Archaean age. Limestone occurring in this area is in shades of grey, fine grained, hard and compact with shale partings, with conchoidal fractures and readily effervesces with dilute hydrochloric acid. The massive limestone is chemically good grade. Stylolite features are seen in the grey limestone of the middle and upper parts of the unit. The Strike of the deposit is N 600 E - S 600 W and gently dipping from 20 to 50 towards SE .Recent direction Recent : Soil and alluvium Post Kurnool : Quartz/Calcite/Baryte veins Cumbum : Phyllites intercalated with limestone and quartzite (Cuddapah Super Group) ----- T H R U S T (P o s t – K u r n o o l) ----- Jammalamadugu Formation :Nargi Limestone (average thickness=90m) -----KURNOOL GROUP (Younger) ----- Banaganapalli :Shale (average thickness=&gt;25m) Formation : Quartzite (average thickness=&gt;15m) ----- Non-Conformity----- Archaean Formation : Granites and granitic gneisses traversed by dolerite dykes and quartz veins. The quartzite, the oldest unit of the Kurnool in the area, rest non-conformably by the Archean granite gneisses. This is succeeded conformably by the purple and green shales, and this in turn is conformably overlain by the limestone. The Phyllites, correlated to the cumbums of cuddapah super group, are thrust over the younger Kurnool group of rocks, and are now found along a tectonic contact with each of the former unit at different places.</p>
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## 2A.1.4 : Local Geology & Structure

### 2A.1.4.1 : Local Geological Set-up

Ramco Budawada Limestone Mining Lease area lies in the Northeastern margin of the Palnad sub basin of the Kurnool sedimentary basin overlying the Cuddapah supergene of rocks. The Cuddapah groups of rocks are in turn deposited over the Achaean basement. Limestone occurring in this area is in shades of dark grey to grey, fine grained, hard and compact with shale partings. The limestone show typical bedded nature with varying thickness. The action of ground water on these Limestone has resulted in the formation of solution cavities at different places. The formations encountered in this area have been assigned an age equivalent to the Kurnool Super Group and hence the limestone has been considered as being equivalent to the Nargi group of Kurnool Super Group. The order of super position of litho units is following: Cumbum Formation :Phyllite Nargi Limestone Formation : Limestone (Kurnool System) : Shale In consideration of the data collected from these outcrops and subsequent extrapolation of subsurface data obtained from drill holes, different litho units were delineated and plotted on plan. In the subject Mining lease area is covered with Limestone outcrop, the limestone formation shows the general strike shows along North South and dipping towards East. The same has been confirmed after carried out detailed exploration by Core drilling and the sections are prepared towards East. Due to local disturbances, the outcrops shows some gently variance in dipping i.e., 2o to 5o towards South East direction. The deposit is simple stratified tabular deposit of regular habit categorized I as per ME&MC Rules,2015. The entire Mining Lease area is divided equally with 200 m grid interval and 6 Sections are drawn from West to East. Detailed traverses were made along and in between all the cross section lines laid in the area and different lithounits exposed in the field were mapped.

### 2A.1.4.2 : Structure

The sedimentary rocks are undeformed and are horizontally bedded. Both primary and secondary structures are noticed in the outcrop and core samples of various lithounits. Limestone occurring in this area are in shades of grey, buff or white, fine grained, hard and compact with shale partings. The limestone shows typical bedded nature with varying thickness. The quality of limestone deteriorates at places due to the predominance of shale partings. The action of ground water on these limestone has resulted in the formation of solution cavities at different places. The outcrops show uneven weathering pattern due to presence of alternating argillaceous and calcareous material. The pure limestone outcrops show smoothly weathered surfaces while the argillaceous variety shows sharp edged weathering which resembling a dentate structure.

### 2A.1.4.3 : Lithology, Petrographic & Mineralogical Description for Major, Associated & Indicator Minerals

Grey Limestone: The Grey limestone occurs in the top and uniform contact in the entire area. The thickness of grey limestone varies from 2.0 to 100.0 m as seen from various boreholes. The average quality of grey limestone derived from Core boreholes quality is Sio2% : 9.37-17.94,Al2o3%: 1.05-1.92,Fe2o3%: 0.42-1.94,Cao%: 41.02-47.36,Mgo%: 0.44-1.67 Shale: The sub surface intersection in the some boreholes indicated that it is green in colour, fine grained and flaggy in nature. The average quality is Sio2%: 32.10-38.65,Al2O3 %:7.64-13.33,Fe2O3%: 2.39-4.23,Cao%: 22.12-26.73,mgo%: 1.22-1.67

### 2A.1.4.4 : Mode of Occurance & Controls of Mineralization

The Ramco Budawada Limestone deposit located near Jaggayyapet Village forms a part of Nargi Limestone Formation belonging to Kurnool System. It occurs as primary sedimentary unit with near horizontal disposition and is of stratiform type. The limestone is massive, thick and compact and the Limestone is formed when water containing particles of calcium carbonate evaporate, leaving behind the sediment deposit. the water pressure compacts the sediment, creating limestone. Limestone beds were deposited as near horizontal/horizontal beds over an undulating Archean Granite



basement.

2A.1.4.5 : Extent of Weathering/ Alteration

The outcrops show uneven weathering pattern due to presence of alternating argillaceous and calcareous material. The pure limestone outcrops show smoothly weathered surfaces while the argillaceous variety shows sharp edged weathering which resembling a dentate structure.

2A.1.4.6 : Nature/Form of Mineral

Platy

Specify If any other

The available Limestone is a sedimentary rock composed principally of Calcium carbonate(Calcite). It will effervesce readily in any common acid. The Limestone is fine to medium grained, generally of grey colour, massive and thick bedded formation.

2A.1.4.7 : Extent of Mineralization

Limestone occurring in this area are in shades of dark grey to grey, fine grained, hard and compact with shale partings. The limestone shows typical bedded nature with varying thickness. The quality of limestone deteriorates at places due to the predominance of shale partings. The action of ground water on these limestone has resulted in the formation of large solution cavities at different places.

2A.1.4.8 : Deposit Type (as per MEMC Rule)

Bedded stratiform and tabular deposits of regular habit as per Mining Lease area as per Minerals (Evidence of Mineral Contents) Rules,2015

Strike / Trend of the Ore Body

N

60

E

to

S

60

W

Amount of Dip of the Ore Body (degree)

2

(from)

Amount of Dip of the Ore Body (degree)

5

(to)

Dip Direction of the Ore Body

Plunge of Mineral Body  
(degree) (if any)

Direction of Plunge

E	Nil	W	Nil	W	Nil	W
---	-----	---	-----	---	-----	---

2A.2: Exploration

2A.2.1: Summary of The Previous Exploration (for fresh grant) / During Last Plan Period (for existing leases)

Name of The Agency
Nil

2A.2.1.1: Geological Mapping

SI.No.	Year		Scale	Area Covered (Ha)
	From	To		
1	Nil	Nil	Nil	Nil

2A.2.1.2: Airborne Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					Form	To	Form	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.1.3: Ground Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					Form	To	Form	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.1.4: Geochemical Survey

Sl.No.	Type of Sample	No of Samples	Aanlysis report	Area Covered (Ha)
1	Nil	Nil	Nil	Nil

2A.2.1.5: Pitting

Number of Pits															
Nil															

Sl.No.	Year		Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit (m)	Depth (from)	Depth(to)	Running mtr	Litho units exposed	Name of the radical	Av Grade(in %)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
	From	To											From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.1.6: Trenching

Number of Trenches															
Nil															

2A.2.1.6.1: Spacing

Min (m)						Max (m)						Avg (m)			
Nil						Nil						Nil			

Sl.No.	Year		Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench( m)	Depth (from)	Depth(to)	Running mtr	Litho units exposed	Name of the radical	Av. Grade	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
	From	To											From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.1.7 Exploratory Drilling(Core/non Core)



SI.No.	Year		Exploration agency	Core holes		Non-core (RC/DTH)		Grand total		Attach log sheet of each borehole in csv/excel format
	From	To		Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**2A.2.1.8: Exploratory Mining**

SI.No.	Pit/Adit ID	Length in Mtr	Width in Mtr	Depth in mtrs	Volume (m <sup>3</sup> )
1	Nil	Nil	Nil	Nil	Nil

**2A.2.1.9: Sampling**

SI.No.	Type of sample	No of samples collected	Number of samples analyzed	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Remark if any
				From	To	From	To	
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**2A.2.1.10: Chemical Analysis**

SI.No.	Sample ID	Minerals	Radical with garde in %	Name of Agency	Type of agency	Attachment
1	Nil	Nil	Nil	Nil	Nil	Nil

\* Chemical analysis of core /non vore samples may be uploaded in CSV file which shall normally include Five files namely collar file, survey file and Geology log file, Assay file & RQD File.

**2A.2.1.11: Petrology & Mineralogical Studies**

SI.No.	Type of Sample	Number of Sample Drawn	Number of Sample Analyzed	Petrographic Study Report
1	Nil	Nil	Nil	Nil

**2A.2.1.12: Beneficiation Studies**

SI.No.	Type of Beneficiation	Number of Samples	Attach
1	Nil	Nil	Nil

**2A.2.1.13: Bulk Density Study as per M(EMC) Rules, 2016 and SOP of CGPB**

Method adopted for calculating bulk density of ore and waste
This is the existing working mine and considering the bulk density for Ore is 2.5t/m <sup>3</sup> and for waste material (IB) is 2.3t/m. Further we have conducted the bulk density test for Limestone (ore) and arrived the bulk density for Limestone is 2.5 t/m <sup>3</sup> .

SI.No.	Nature of Ore/OB	Mineral	Number of samples	Bulk Density Established (t/m <sup>3</sup> )
1	Ore	Limestone	3	2.50
2	IB	Waste Material	0	2.30

**2A.2.1.14: Area Covered under Exploration**

Level of exploration	Area in Ha.		Total Area in Ha.
	Forest	Non Forest	
G-1	160.000000	0.000000	160.000000
G-2	0.000000	0.000000	0.000000
G-3	0.000000	0.000000	0.000000
G-4	0.000000	0.000000	0.000000
Area proved as Non-mineralized	0.000000	0.000000	0.000000
Area to be explored	0.000000	0.000000	0.000000
Total	160.000000	0.000000	160.000000

**2A.2.2: Summary of The Previous Exploration (Before Last Plan Period)**

Name of The Agency
The Ramco Cements Limited by engaging consultant of M/s. Synergy Geotech Pvt., Ltd., Nagpur for drilling

Sl.No.	Year		Scale	Area Covered (Ha)
	From	To		
1	23/02/2014	15/06/2014	1:2000	160.00

Sl.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	

Sl.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	

SI.No.	Type of Sample	No of Samples
1	Nil	Nil

[illegible]



2A.2.2.6: Trenching

Number of Trenches
0

Spacing

Min (m)	Max (m)	Avg (m)
Nil	Nil	Nil

Area Covered Under Trenching

Co-ordinates

Latitude

North	Nil
North	Nil
North	Nil
North	Nil

Longitude

East	Nil
East	Nil
East	Nil
East	Nil

SI.No.	Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench (m)	Litho Units Exposed	Average Grade	Running mtr	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
								From	To	From	To

1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
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2A.2.2.7: Exploratory Drilling

2A.2.2.7.1:Core/Non-core Drilling

SI.No.	Year		Exploration agency	Core holes		Non-core (RC/DTH)		Grand total		Attach log sheet of each borehole in csv/excel format
	From	To		Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	Total boreholes	Total mtrs	
1	23/02/2014	28/03/2014	The Ramco Cements Ltd	19	1050.00	0	0.00	19	1050.00	
2	03/04/2014	15/06/2014	The Ramco Cements Ltd	35	2050.00	0	0.00	35	2050.00	

2A.2.2.8: Exploratory Mining

SI.No.	Pit / Adit ID	Volume (m³)
1	Nil	Nil

2A.2.2.9: Sampling

SI.No.	Type of sample	Number of Samples	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
				From	To	From	To
1	Drill Core	2083	160.00	16:51:17.36	16:51:49.11	80:03:47.23	80:04:41.99

2A.2.2.10: Chemical Analysis

SI.No.	Sample ID	Minerals	Radical Analysis	Attachment
1	Drill core	Limestone	SiO2, Al2O3, Fe2O3, CaO, MgO&	<a href="#">Ramco Budawada Exploration For</a>

			LOI	<a href="#">mJ.xls</a>
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2A.2.2.11:Petrology & Mineralogical Studies

SI.No.	Type of Sample	Number of Sample Drawn	Number of Sample Analyzed	Petrographic Study Report
1	Nil	Nil	Nil	Nil

2A.2.2.12: Beneficiation Test

SI.No.	Type of Beneficiation	Number of Samples	Attachment
1	Nil	Nil	Nil

2A.2.2.13: Bulk Density

SI.No.	Rock Type	Number of Samples	Minerals	Bulk Density Established (t/m <sup>3</sup> )
1	Limestone	3	Limestone	2.50
2	Internal Burden	1	Waste Material	2.30

2A.2.2.14: Area Covered under Exploration

Level of exploration	Area in Ha.		Total Area in Ha.
	Forest	Non Forest	
G-1	160.0000	0.0000	160.0000
G-2	0.0000	0.0000	0.0000
G-3	0.0000	0.0000	0.0000
G-4	0.0000	0.0000	0.0000
Area proved as Non-mineralized	0.0000	0.0000	0.0000
Area to be explored	0.0000	0.0000	0.0000
Total	160.0000	0.0000	160.0000



SI.No.	Year		Area converted to G1 from G2, G3 & G4	% increase in G-1 Area	Remaining Area % in G2	Remaining Area % in G3	Remaining Area % in G4	Remaining Area in G2	Remaining Area in G3	Remaining Area in G4
	From	To								
1	23/02/2014	15/06/2014	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potentially Mineralised area (Ha)										160.00

### 2A.2.3 Ore Body Geometry & Grade

SI.No.	Name of the ore band	General Strike / Trend	Dip Of Mineral Body	Average Strike Length (m)	Average Width (m)	Chemical parameters				
						Average Depth (m)	Name of the radical	Min Grade (%)	Max Grade (%)	Avg Grade (%)
1	Limestone	NE-SW	E	1610.00	870.00	90.00	Cao	34.00	47.00	43.00

### 2A.2.4: Reserve / Resource Estimation Method

#### 2A.2.4.1: Methodology

Resource / Reserve Estimation Method
Sectional Area Method
Methodology
Mineral Reserves and Resources are estimated by cross sectional area method and recovery factor considered at 90% and 100% respectively. The recovery factor considered for estimation of reserves at 90% considering the cavity fillings in the area. The Resources area estimated at 100% and during the conversion of Resources to Reserves that can be considered as 90% by taken into consideration of Mining Loss etc., Reserves and Resources are calculated by Geological Cross section method entire and the entire area divided into 6MLs and boreholes drilled in 6ML's along with strike and dip directions. The maximum depth of the bore holes is 100m. Geological sections drawn along each ML and calculations are based on the average cross sectional area and mean distance, hence the summary of Reserves as on 31.01.2023 are furnished below table.

#### 2A.2.4.2: Resource Calculation

SI.No.	Cross Section/Bloc k	Section Area/ Block Area(sq mt)	Influence(m)	Depth in mtr	Volume (m <sup>3</sup> )	Bulk Density (t/m <sup>3</sup> )	Resource Quantity (t)	Level of Exploration	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
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1	AA	75911	100.00	0.00	7591100.00	2.50	17079975.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (111)
2	BB	75841	200.00	0.00	15168200.00	2.50	34128450.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (111)
3	CC	75272	200.00	0.00	15054400.00	2.50	33872400.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (111)
4	DD	75653	200.00	0.00	15130600.00	2.50	34043850.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (111)
5	EE	51086	130.00	0.00	6641180.00	2.50	14942655.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (111)
6	AA	5407	100.00	0.00	540700.00	2.50	1351750.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (211)
7	BB	5138	200.00	0.00	1027600.00	2.50	2569000.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (211)
8	CC	5475	200.00	0.00	1095000.00	2.50	2737500.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (211)
9	DD	4633	200.00	0.00	926600.00	2.50	2316500.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (211)

10	EE	4323	130.00	0.00	561990.00	2.50	1404975.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (211)
11	FF	39399	35.00	0.00	1378965.00	2.50	3447413.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (331)
12	FF	42371	70.00	0.00	2965970.00	2.50	7414925.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (331)
13	EE	25687	65.00	0.00	1669655.00	2.50	4174138.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (331)
14	BB	55233	200.00	0.00	11046600.00	2.50	27616500.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (222)
15	DD	55809	200.00	0.00	11161800.00	2.50	27904500.00	331	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method (222)
Total					91960360.00		215004531.0 0					

#### 2A.2.4.3: Mineral Resource Estimate for Conversion to Mineral Reserve

Reserves and resources are calculated by Geological Cross section method entire area divided into 6ML's and boreholes drilled in 6ML's along with strike and dip directions. The Maximum depth of bore holes is 100 Meters. Geological sections drawn along each ML and Calculations are based on the average cross sectional area and mean distance, hence the summary of Mineral Reserves as on 31.01.2023 is 215.005 Million Tones and out of Proved Mineral reserves is 134.067 Million Tones .

#### 2A.2.4.4: Threshold value & Cut off Parameters



The threshold value for limestone Mineral as declared by IBM Notification No: C-284/3/CMG/2017, dated: 25th April 2018 was Cao:34%(Min) and Mgo: 5% (Max). The Cut of grade quality of limestone is Cao: 41% and Mgo:2% for this mine. The Cao below cut of grade of 41 to 34% is being treated as sub grade mineral.

#### **2A.2.4.5: Mining Factors or Assumptions**

The following parameters are considered for Re-assessment of Reserves in the Mining Lease area as per Minerals (Evidence of Mineral Contents) Rules,2015. In the ML area a total no of 54 boreholes drilled during detailed exploration work carried out during 2013-2014 & 2014-15 with cumulative meterage is 3100. These prospecting 54 boreholes with meterage of 3100 m are covering an area of 160 ha. with a grid interval of 200 m X 200 m. 1. The deposit is more or less simple. Deposit characteristics are well established for extracting limestone by opencast mining method. The general strike of the beds varies from North-South and dipping towards East direction. Lithological sequence of the area from top to bottom is Limestone and shale. 2. Geological sections drawn at interval of 200 m. Area explored at 200m X 200m as G1 Category laterally. 3. Leaving 50 m barrier from the Railway line (SCR), Proposed TRCL Railway siding, Crusher and Stacker Reclaimer. Accordingly, the length of influence is considered for estimation of reserve and resources. 4. The threshold value of minimum CaO is above 34%. 5. The cut off grade quality of limestone is Cao 41% and corresponding SiO<sub>2</sub> upto 18% in this mine. The CaO below cut of grade of 41% and 34% (Threshold value) and corresponding SiO<sub>2</sub>% is above 18% is being treated as Sub grade mineral. 6. Leaving 7.5 m safety barrier from the Mining Lease Boundary. 7. Area explored at 150m x 150m as G1 category and the area explored 400m X 400m is considered under G2 category. 8. The Mineral Resources blocked in bench slopes and safety barrier area of SCR & TRCL Railway sidings are assessed separately. 9. Mineral Reserves and Resources are estimated by cross sectional area method and recovery factor considered at 90% and 100% respectively. The recovery factor considered for estimation of reserves at 90% considering the cavity fillings in the area. The Resources area estimated at 100% and during the conversion of Resources to Reserves that

#### **2A.2.4.6: Metallurgical Factors or Assumptions**

Limestone in the area is massive fine grained dark grey, grey and white limestone. The Limestone show typical bedded nature with varying thickness. The action of ground water on these limestone has resulted in the formation of solution cavities at different places. Cement grade limestone should desirably have some limitations in the content of some minor elements and constituents, these minor constituents do not have direct significance in assessing the suitability of a limestone, their presence beyond certain limits is undesirable as they affect the cement manufacturing process or the quality of cement adversely. The minor constitutes in this deposit do not have any significance affect in the manufacture of the cement.

#### **2A.2.4.7: Cost & Revenue Factors**

The production cost is around Rs.109.87/- per M.T. and other revenue generation for government agencies comes to Rs.115.60/- per M.T. at the present scenario towards Royalty, DMF, NMET & Forest permit fee. The Capital cost for the existing equipment and additional equipment's including the crusher arrangements, the present capital Cost of Ramco Budawada Limestone Mine (RF) including railway siding arrangements, stacker , Reclaimer etc., is Rs 222 crores. The operating expenses includes consumption of fuel, lubricants, stores and spares, repairs and maintenance, consumption of explosives and manpower cost. The present operating cost per metric tonne of limestone is Rs.225.47 /- includes Royalty, DMF, NMET and Forest permit fee.

#### **2A.2.4.8: Market Assessment**

The Ramco Cements Limited (Formerly Madras Cements Ltd.,) is one of the leading cement manufacturing company in South India, having capacity of 3.65 million tonnes cement per annum and

4.685 million tonnes Clinker per annum. Cement produced from the plant is marketed under the brand name of “RAMCO” is marketed through a wide network in states of Andhra Pradesh, Tamil Nadu, Karnataka, Kerala, Odisha etc., The Limestone consumption by the Captive Cement Plant is based on Cement market. The proposed production from this may vary based on the captive consumption of the cement plant, Cement market conditions, and production from other captive limestone mines based on the quality.

#### 2A.2.4.9: Other Modifying Factors

Mining operations in the deposit is carried out under the various statutory provisions of MM(R&D) Act-1957, Minerals (Other than Atomic and Hydro Carbon Energy Minerals) Concession Rules,2016 (amended upto 2021), Mineral Conservation and Development Rules ,2017 (amended upto 2021), Mines Act-1952 and Rules & Regulations made there under Explosive Rules-2008, Central Electricity Regulation-2010, Environment protection Act, etc. relevant clearances are in place for continuing mining operation in the Mining Lease area.

#### 2A.2.4.10: Classification

This Mine is working since 2014 by obtaining all necessary statutory permissions and approvals. The basis of classification of the Mineral Reserve into various categories are based on the present economic viability, marketing conditions of the Cement for manufacturing clinker.

#### 2A.2.4.11: Calculation of blocked resources

Sl.No.	Reserves blocked due to	Cross section/Block	Sectional area/ block area (in Sq mtr)	Influence (m)	Depth (m)	Volume (m <sup>3</sup> )	Bulk Density (t/m <sup>3</sup> )	Resource Quantity (t)	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
1	Ultimate Pit Limit	AA	5407.00	100.00	0.00	540700.00	2.50	1351750.00	211	Reserve Forest	CaO SiO <sub>2</sub> Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
2	Ultimate Pit Limit	BB	5138.00	200.00	0.00	1027600.00	2.50	2569000.00	211	Reserve Forest	CaO SiO <sub>2</sub> Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
3	Ultimate Pit Limit	CC	5475.00	200.00	0.00	1095000.00	2.50	2737500.00	211	Reserve Forest	CaO SiO <sub>2</sub> Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method

4	Ultimate Pit Limit	DD	4633.00	200.00	0.00	926600.00	2.50	2316500.00	211	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
5	Ultimate Pit Limit	EE	4323.00	130.00	0.00	561990.00	2.50	1404975.00	211	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
6	Railway track	FF	39399.00	35.00	0.00	1378965.00	2.50	3447413.00	221	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
7	Railway track	FF	42371.00	70.00	0.00	2965970.00	2.50	7414925.00	221	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
8	Other	EE	25687.00	65.00	0.00	1669655.00	2.50	4174138.00	221	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method
9	Ultimate Pit Limit	BB	55233.00	200.00	0.00	11046600.0 0	2.50	27616500.0 0	211	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method(Below UPL)
10	Ultimate Pit Limit	DD	55809.00	200.00	0.00	11161800.0 0	2.50	27904500.0 0	211	Reserve Forest	CaO SiO2 Mgo	34.00-48.00 , 9.00-18.00, 0.25-1.95	Cross Section Method(Below UPL)
Total						32374880.0 0		80937201.0 0					

**2A.2.4.12: Calulation of Reserves - I**

SI.No.	Cross section/Bloc	Sectional area/ block	Influence (m)	Depth (m)	Volume (m <sup>3</sup> )	Bulk Density (t/m <sup>3</sup> )	Resource Quantity (t)	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource
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	k	area (in Sq mtr)										estimation
1	AA	75911	100.00	0.00	7591100.00	2.50	17079975.00	111	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method
2	BB	75841	200.00	0.00	15168200.00	2.50	34128450.00	111	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method
3	CC	75272	200.00	0.00	15054400.00	2.50	33872400.00	111	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method
4	DD	75653	200.00	0.00	15130600.00	2.50	34043850.00	111	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method
5	EE	51086	130.00	0.00	6641180.00	2.50	14942655.00	111	Reserve Forest	CaO SiO2 Mgo	34.00-48.00, 9.00-18.00 ,0.25-1.95	Cross Section Method
Total					59585480.00		134067330.0 0					

2A.2.4.13: Calculation of Reserves -II

Mineral	LIMESTONE
Reserves/ Resources estimated as on	31/01/2023
UNIT of estimation	tonnes

A. Mineral Reserve

Classification	Code	Quantity			Grade		Remark
		Forest	Non Forest	Total	Forest	Non Forest	
1. Proved Mineral Reserve (A)	111	134067330.00	0.00	134067330.00	CaO:34.00 to 48.00, SiO2:9.00 to 18.00	0	Nil

					,Mgo: 0.25 to1.95		
2. Probable Mineral Reserve (A)	121	0.00	0.00	0.00	0	0	Nil
3. Probable Mineral Reserve (A)	122	0.00	0.00	0.00	0	0	Nil

**B. Remaining Resources**

Classification	Code	Quantity			Grade		Remark
		Forest	Non Forest	Total	Forest	Non Forest	
1. Feasibility Mineral Resource (B)	211	65900725.00	0.00	65900725.00	CaO:34.00 to 48.00, SiO2:9.00 to 18.00 ,Mgo: 0.25 to1.95	0	Resources Blocked Due to Bench Slopes and Resources below UPL
2. Prefeasibility Mineral Resource (B)	221	15036476.00	0.00	15036476.00	CaO:34.00 to 48.00, SiO2:9.00 to 18.00 ,Mgo: 0.25 to1.95	0	Blocked Due to SCR,TRCL Railway Line, Crusher and Stacker & Reclaimer.
3. Prefeasibility Mineral Resource (B)	222	0.00	0.00	0.00	CaO:34.00 to 48.00, SiO2:9.00 to 18.00 ,Mgo: 0.25 to1.95	0	Nil
4. Measured Mineral Resource (B)	331	0.00	0.00	0.00	0	0	Nil
5. Indicated Mineral Resource (B)	332	0.00	0.00	0.00	0	0	Nil
6. Inferred Mineral Resource (B)	333	0.00	0.00	0.00	0	0	Nil
7. Reconnaissance Mineral Resource (B)	334	0.00	0.00	0.00	0	0	Nil
Total Mineral Resources (A+B) :				215004531.00			

**2A.2.4.13: Calculation of Reserves -III**

No associate minerals are available!

2A.2.5: Future Exploration Proposal

2A.2.5.1: Geological Mapping

SI.N.	Year	Scale	Area Covered (Ha)
1	Nil	Nil	Nil

2A.2.5.2: Ground Geophysical Survey

SI.No.	Year	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
						From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.5.3: Pitting

Number of Pits										
0										
SI.No.	Year	Land Type	Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
							From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.5.4: Trenching

Number of Trenches										
0										

2A.2.5.4.1: SPACING



Min (m)	Max (m)	Avg (m)
Nil	Nil	Nil

2A.2.5.4.2: Area Covered Under Trenching

Co-ordinates

SI.No.	Year	Land Type	Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench(m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
							From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.5.5: Exploratory Drilling

2A.2.5.5.1: Core Drilling & Non-Core Drilling

SI.No.	Year	In Forest Area				In Non Forest Area				Total Borehole	Total Meter
		No. of Borehole	Total Mtr	Type Borehole	Grid Interval	No. of Borehole	Total Mtr	Type Borehole	Grid Interval		
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.5.6: Exploratory Mining

SI.No.	Year	Pit ID	Length in meter	Width in meter	Depth in meter	Volume (m³)
1	Nil	Nil	Nil	Nil	Nil	Nil

2A.2.5.7: Sampling

SI.No.	Year	Type of Sample	Number of Samples Proposed	Area Covered(Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To

1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
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2A.2.5.8 Petrographic & Mineralgraphic Studies

Sl.No.	Year	Type of Sample	Number of Samples Proposed
1	Nil	Nil	Nil

Approved

# **Chapter 2B : Geology & Exploration UG : NA**

Approved



Chapter 3: Mineral Beneficiation / Processing

Name of The Ore/Mineral	Limestone
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3.1: Mineralogy of the ROM ore/ Mineral

SI.No	Valuable Mineral Name	Approx. Mineral %	Gangue Mineral/s name	Approx. Mineral Gangue %
1	Limestone	100.0000	Nil	0.0000

3.2: Complete Chemical Analysis of the ROM Ore/Mineral

SI.No	Radical	Wt%
1	CaO	42.0000
2	SiOn	13.5000
3	Mgo	1.1000

3.3: Crushing Section

3.3.1: Primary Crushing

SI.No	Type of Crusher	Make	Capacity of Crusher(tph)	Feed Size(mm)	Product Size(mm)
1	Other	L & T	950	1600.0000	75.0000

3.3.2: Secondary Crushing

Not Applicable

**3.3.3: Tertiary Crushing**

Not Applicable

**3.4: Grinding Section**

**3.4.1: Dry Grinding**

Not Applicable

**3.4.2: Wet Grinding**

Not Applicable

**3.5: Dry Processing**

**3.5.1: Screening and Classification**

Not Applicable

**3.5.2: Other Operations**

Not Applicable

### 3.6: Wet Processing

[illegible][illegible][illegible]

3.6.4: Magnetic Separation

SI.No	Type of magnetic separators (magnetic intensity)	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Mag (tph)	Product-Mid (tph), if available	Product non-Mag (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

3.6.5: Flotation

SI.No	Type of flotation equipment (froth/ column)	Stages (rougher/ cleaner, etc), if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Float (tph)	Product non-Float (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

3.6.6: Other Operations

SI.No	Type of equipment / operation	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Conc (tph)	Product-Mid (tph), if available	Product-Tail (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

3.6.7: Product Quality (wet processing)

Products	Wt%	In Tonnes	Size (Range) mm	Complete chemical analysis
Concentrate	Nil	Nil	Nil	Nil
Sub-grade	Nil	Nil	Nil	Nil
Rejects	Nil	Nil	Nil	Nil



**3.7: Overall Product Quality (Dry cum Wet Processing)**

Products	Wt%	In Tonnes	Size (Range) mm	Complete chemical analysis
Concentrate	Nil	Nil	Nil	Nil
Sub-grade	Nil	Nil	Nil	Nil
Rejects	Nil	Nil	Nil	Nil

**3.8: Disposal Method for tailing/ rejects**

a) Explain the disposal method for tailing or reject from processing plant with detail chemical / mineral analysis of tailing	Nil
b) Size and capacity of tailing pond, toxic effect of such tailings, process adopted to neutralise its effect (if any)	Nil
c) Any other data (if available)	Nil

**3.9: Overall water requirement of mining and mineral processing**

Indicate quantity, source of supply, disposal of water and extent of recycling and chemical analysis of water	<a href="#">Water Requirment for Budawada ML 310123.pdf</a>
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**3.10: Flow sheets and charts**

Material balance chart of mineral processing plant(s) (each stage of process)	<a href="#">3_10_MATERIAL_HANDLING_FLOW_SHEET_FOR_BUDAWADA_MINES_100423.pdf</a>
Attach flow sheet of beneficiation of plant(s)	Nil
Any other data (if applicable)	<a href="#">Lst Mine transportation to factory 310123.pdf</a>

Chapter 4A: Mining Operations

4A.1.1: Existing Method of Mining			Mechanized		
Choose one or more	HEMM with deephole drilling	None	None	None	
4A.1.2: Proposed Method of Mining			Nil		
Reasons for Proposed Changes			Nil		

4A.2: Operational Parameters

4A.2.1: Inventory of Existing Pits & Dumps

4A.2.1.1: Pits

SI.No.	Pit ID	Pit Status	Area Covered by Pit(Ha)	Pit Dimensions(L*W*D)
1	1	Active	2.30	355X64.789X8

4A.2.1.2: Dumps and Stacks

4A.2.1.2.1: Dump Details

SI.No.	Dump ID	Dump Status	Type of Dump	Total of Dump Quantity(t)	Area Covered by Dump(Ha)	Height(m)	Latitude (dd:mm:ss.ss)	Longitude (dd:mm:ss.ss)
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							From	To	From	To
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.2.1.2.2: Stack Details

Sl.No.	Stack ID	Type of Stack	Total Stack of Quantity(t)	Area Covered by Stack(Ha)	Height(m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
						From	To	From	To
1	Limestone	Stack for mineral	85263	1	10	16:51:38.20	16:51:43.46	80:04:14.51	80:04:18.03

4A.2.1.3: Details of stabilised dumps

Sl.No.	Dump ID	Number of Terraces	Average Height of Terraces(m)	Lenght of Toe Wall(m)	Lenght of Garland Drain(m)	Area Stablized(Ha)	Method of Stablization
1	Not applicable	Nil	Nil	Nil	Nil	Nil	Nil

4A.2.2: Opencast Mining

4A.2.2.1: Bench Parameters

Pit ID	Year	Max Height of the Benches in Over Burden (m)	Min Width of the Benches in Over Burden (m)	Slope of the Bench in Over Burden (degree)	Max Height of the Benches in Mineral (m)	Minimum Width of the Benches in Mineral (m)	Slope of the Bench in Mineral (degree)	Overall Slope of Pit (degree)	Number of Benches in Top Soil	Number of Benches in Over Burden	Number of Benches in Mineral	Max Depth of Workings (m)	Depth of Water Table (mRL)	Max Slope Angle of Haul Roads (1xx in)
Pit-1	2022-2023	0.00	0.00	0.00	9.00	15.00	72.00	45.00	0	0	1	9.00	52.00	16
Pit-1	2023-2024	0.00	0.00	0.00	9.00	15.00	72.00	45.00	0	0	1	24.00	52.00	16

4A.2.2.2: Yearwise Opencast Development - I Continue

SI.No.	Year	Pit ID	Bench	Direction	Bulk Density of Overburden (BD1) (ton/m³)	Bulk Density of Mineral (BD2) (tonn/m³)	Top Soil Volume (Length x Width x Height) (m³)	Over Burden Volume (Length x Width x Height) (m³)	Over Burden Quantity (t)	ROM Volume (Length x Width x Height) (m³)	ROM Quantity (t)	Recovery	Mineral Reject (t)	Production Main (t)	Production Associated (t)	Ore to OB Ratio (ton/m³)
1	2022-2023	Pit-1	1 st bench (65-57RL)	South	2.30	2.50	0.00	3039.00	6989.70	148905.00	372262.50	1.00	0.00	372262.50	0.00	122.4951
2	2023-2024	Pit-1	1 st bench (65-57RL)	South	2.30	2.50	0.00	11278.00	25939.40	552600.00	1381500.00	1.00	0.00	1381500.00	0.00	122.4951
3	2023-2024	Pit-1	2nd Bench(57-49 RL)	South	2.30	2.50	0.00	0.00	0.00	361080.00	902700.00	1.00	0.00	902700.00	0.00	Nil
4	2023-2024	Pit-1	3rd Bench(49-41RL)	South	2.30	2.50	0.00	0.00	0.00	86320.00	215800.00	1.00	0.00	215800.00	0.00	Nil
Total									32929.10		2872262.50		0.00	2872262.50	0.00	

4A.2.2.2 Yearwise Opencast Development - I End

SI.No.	Year	Pit ID	Total Topsoil Volume (m³)	Total Over Burden Volume (m³)	Total Over Burden Quantity (t)	Total ROM Volume (m³)	Total ROM Quantity (t)
1	2022-2023	1	0.00	3039.00	6989.70	148905.00	372262.50
2	2023-2024	1	0.00	11278.00	25939.40	1000000.00	2500000.00
Total			0.00	14317.00	32929.10	1148905.00	2872262.50

4A.2.2.3: Transportation & Hauling Equipment



Sl.No.	Type	Make	Capacity (m³)	No. of Equipments
1	Other	KOBELCO 380	2.30	2
2	Other	KOBELCO 220	1.10	1
3	Tipper	ASHOK LEYLAND	19.00	9
4	Water Tanker	ASHOK LEYLAND	10.00	1

4A.3: Material Handling Summary

4A.3.1: Studies Undertaken

Title	Study Undertaken	Attachment (only pdf allowed)
Blast Vibration Study Report	No	Nil
Slope Stability Study Report	No	Nil
Recovery Study Report	No	Nil
Hydrological Study Report	Yes	<a href="#">Budawada Ground Report and NOC.pdf</a>
Mineral Beneficiation Study Report	No	Nil
Subsidence Study Report	No	Nil
Geotechnical Study Report	No	Nil
Any Other Study Report	No	Nil
Bulk Density Study Report	Yes	<a href="#">15 Budawada Bulk density report of Budawada 12042023.pdf</a>

4A.3.2: Insitu Mining

Sl.No.	Year	Waste Quantity(t)	ROM Quantity(t)	Total Handling (t)	ROM Quantity Saleable Mineral (t)	ROM Quantity Mineral Reject (t)	Ore to OB Ratio (ROM Quantity / Waste Quantity)	Grade Range (%)
1	2022-2023	6989.70	372262.50	379252.20	372262.50	0.00	53.26	CaO: 34 to 47 Mgo:0.25 -1.95

2	2023-2024	25939.40	2500000.00	2525939.40	2500000.00	0.00	96.38	CaO: 34 to 47 Mgo:0.25 -1.95
3	2022-2023	Nil	Nil	0.00	Nil	Nil	Nil	Nil
4	2022-2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5	2022-2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Total	32929.10	2872262.50	2905191.60	2872262.50	0.00		

4A.3.3: Dump workings

SI.No.	Year	Dump ID	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Area (m2)	Avg Height of Dump (m)	Volume (m³)	Total Dump Quantity (t)	Proposed Dump Handling Quantity (t) (A)	Proposed Recovery of Saleable Mineral (t)(B)	Proposed Waste Quantity (t) (A-B)	Grade Range (%)	Justification
			From	To	From	To									
1	2023-2024	Nil	Nil	Nil	Nil	Nil	0.00	0.00	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.3.4: Calculation Summary

Year	2022-2023	2023-2024	Total
(A) Total ROM quantity (t)	372262.50	2500000.00	2872262.50
(B) Saleable ore from ROM (t)	372262.50	2500000.00	2872262.50
(C) Proposed Dump Handling Quantity (t)	0.00	0.00	0.00
(D) Saleable Ore recovered from dump workings (t)	0.00	0.00	0.00
(E) Total Saleable Ore (t)(=B+D)	372262.50	2500000.00	2872262.50
(F) Total Quantity Handled (t)(=A+C)	372262.50	2500000.00	2872262.50

4A.4: Machine Calculation

4A.4.1: Machine Requirement Summary

Number of Average Working Days in One Year (A)	300
Number of Shifts per Day (B)	2
Material Handling Required per Day (t) ((D)=Largest of (Q1,Q5)/(A))	8420
Material to be Handled per Shift (t) ((E)=(D)/(B))	4210
Handling Required per Hour (t) ((F)=(E)/8 hours)	601.43
Effective Shift Time	7 hrs 00 mins

4A.4.2: Shovel / Excavator Requirement

Effective Shift Time					7 hrs					00 mins				
Sl.No.	Type	Bucket Capacity (m³)(A)	Bucket Fill Factor (B)	Swell Factor (C)	Tonnage Factor (m³/t) (D)	Machine Utilization Factor (%) (U)	Efficiency (%) (E)	Cycle time (sec) (F)	(G) TPH =TPH (G) =((3600 x A x B x C x D x E x U ) / F)	Total Hours (H) =Number of working days x Number of shifts/day x Effective shift hours	Yearly handling by one Excavator (t) (I)=(G x H)	Maximum handling of the material by this machine during the block period (t) (J)	Number of excavator machines required (K) = (J / I)	Standby excavator (L)
1	Backhoe SK 380	2.30	0.9	0.9	1.60	0.90	0.90	30	289.73	4200	1216866.00	2100000.00	1.73	0
2	Backhoe SK 200	1.10	0.9	0.9	1.60	0.90	0.90	35	118.77	4200	498834.00	425939.40	0.85	0

4A.4.3: Dumper Requirement

Effective Shift Time					7 hrs					00 mins				
SI.No.	Total Hour s=Number of working days (W)x Number of shifts/day x Effective shift hours (Machine Requireme nt Summary) (A)	Capacity of Dumpers (t) (B)	Speed of the dumper (KMPH) (i)	Lead Distance (KM) (ii)	Time taken to cover distance in minutes(iii ) =(ii/i) x 60	Queuing, Loading Time at Shovel (min) (iv)	Queuing, Unloading Time during unloading (min) (v)	Total Time to complete one trip(vi) = (iii + iv + v )	No. of Trips / hr = (60 / vi)	Total trans portation per hour =( B X vii)	Yearly handling by one dumper (ix) = A x TPH	Maximum handling of the material by this machine during the block period (t) (x)	Number of dumpers will be (xi) =( x / ix)	Plus Standby dumper (xii)
1	4200	30.00	20.00	3.00	9.00	6.00	4.00	19.00	3	94	398160.00	2525939.4 0	6	2

4A.4.4: Drill Machine Requirement

Effective Shift Time					7 hrs					00 mins				
SI.No.	Type of Drill	Depth of H ole(includi ng Sub- grade Drilling (m)	Spacing (m)	Burden (m)	Bulk Density of Waste (t/m³)	Bulk Density of Mineral (t/m³)	Yield per Hole (t)	Yield per Meter (t/m) = Yield per Hole (t)/Depth of Hole(in cluding Sub-grade Drilling (m))	Annual Target Known (t)	Drilling Re quirement per Day (m) = (Annual Target Known (t) / Yield per Meter (t/m) ) / Number of Average Working	Drilling Re quirement per Shif t(m)	Rate of Drilling per Hours (m/hr) = Drilling Re quirement per Shif t( m)/Effecti ve Shift Time	Required No. of drills (m/c) = Required rate of drilling in meters per hr./ Actual rate of drilling in meters per hr of the machine	Stand by Drill



										Days in One Year (A)			deployed	
1	Hydraulic	8.50	4.50	3.00	0.00	2.50	286.87	33.75	2525939.4 0	249.47	124.73	17.81	1.00	0

4A.4.5: Machine Deployment Details

4A.4.5.1: Excavator & Loading Equipment

SI.No.	Type	Make	Capacity (m³)	No. of Equipments
1	SK 380	Kobelco	2.30	2
2	SK 220	Kobelco	1.10	1

4A.4.5.2: Dozers Details

SI.No.	Type	Make	Capacity (hp)	No. of Equipments
1	D80	BEML	160.00	1

4A.4.5.3: Drilling Details

SI.No.	Type	Make	Capacity (t)	Diameter of Hole(mm)
1	Cabin Drill	Hyundai	20.00	115.00

4A.5 Blasting Requirement

4A.5.1: Blasting & Explosive Requirement in Waste/Development

SI.No.	Drill Pattern / Spacing of Holes (m)	Burden of Holes (m)	Number of Rows / Rings	Yield per Holes in Waste (m³)	Frequency of Blasting in a Week	Maximum Number of Holes Blasted	Charge per Hole (kg)	Charge per Round (kg)	Explosive Requirement Per Month in	Powder Factor in Development /	Depth Of Hole
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						in a Round			Development (kg)	Waste (t/kg)	
1	4.5	3	3	114.75	4	45	50	2250	27000	7.5	8.5

4A.5.2: Blasting & Explosive Requirement in Mineral / Ore

Type of Explosive										Type of Explosives used / to be Used									
Ammonium Nitrate Fuel Oil Mixture										Non Permitted Slurry Explosives (Large Diameter)									
SI.No.	Total ROM p roposed to be handled in CU M/annu m	Total ROM p roposed to be handled in CUM/ day	Spacing of Holes (m)	Burden of Holes (m)	Numbe r of Rows	Yield per Holes in ROM Zone (m³)	Freque ncy of Blasting in a Week	Maxim um Numbe r of Holes Blasted in a Round	No of Holes R equired to be Blasted per Round	Charge per Hole (kg)	Charge per Round (kg)	Explosi ve Req uireme nt Per Month for ROM Zone Blasting (kg)	Powder Factor in Ore (t/kg)	Pop Shootin g (no of Boulder s)	Plaster Shootin g (no of Boulder s)	Use of Rockbr eaker	Capacit y	Second ary Blasting Require ments	Depth Of Hole
1	100000 0	3333.3 3	4.5	3	3	114.75	4	45	40	50	2250	36000	6.5	0	0	1	20	0	8.5

4A.6: Man Power Deployment

4A.6.1: Managerial

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	1st Class	0	0	0	1	1
2	2nd Class Manager	1	1	0	0	2
3	Mining Engineer	0	0	0	1	1
4	Geologist	0	0	0	1	1

5	other	0	0	0	1	1
6	Mechanical Engineer	0	0	0	1	1
7	Electrical Engineer	0	0	0	1	1

**4A.6.2: Supervisory**

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	Foreman	1	1	0	1	3
2	Blaster	0	0	0	1	1
3	Mine-mate	1	1	0	0	2

**4A.6.3: Skilled Workers / Operators**

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	Operator	3	3	0	1	7
2	Dumper Operator	7	7	0	2	16
3	Technician	0	0	0	2	2
4	Drill Operator	1	1	0	0	2
5	Dozer/Grader Operator	0	1	0	1	2
6	Other	1	0	0	1	2

**4A.6.4: Semi-skilled Workers**

SI.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	0	0	0	2	2

**4A.6.5: Unskilled Workers**

SI.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	1	1	0	3	5

**4A.6.6: Others Specify**

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	other	0	0	0	0	0

**4A.6.7: No of Persons Engaged Per Day**

SI.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	16	16	0	20	52

No of Shifts per Day ((A) = Machine Requirement Summary (B))	2
Average Daily Employment per Shift ((B) = (Total Number of Person per Day) / (A))	26
Material to be Handled per Shift ((C) = Machine Requirement Summary (E))	4210

**4A.6.8: Supervision**

SI.No.	Particular	Qualification	Requirement / Proposed	In Position / Existing Strength	(Requirement / Proposed) - (In Position / Existing Strength) = (-) Shortage / (+) Excess	Remarks
1	Mines Manager	1st Class Certificate Of Competency	1	1	0	0
2	Assistant Manager	2nd Class Certificate Of Competency	2	2	0	0



3	Mining Engineer	Diploma In Mining & 1st Class Certificate Of Competency	1	1	0	0
4	Geologist	M.Sc Geology	1	1	0	0
5	Mine Foreman	Foreman Certificate Of Competency	3	3	0	0
6	Mining Mate	Mining Mate Certificate Of Competency	2	2	0	0
7	Blaster	Blaster Certificate Of Competency	1	1	0	0
8	Others Specify	Survey Certificate Of Competency	1	1	0	0

4A.7: Waste Management

4A.7.1: Existing Dump

SI.No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Dump Quantity (m³)	Existing Dump Location
						From	To	From	To		
1	Nil	Not applicable	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.7.2: New Dump

SI.No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Dump Quantity (m³)	New Dump Location
						From	To	From	To		
1	2022-2023	Temporary Dump	Waste	0.07	5.00	16:51:20.35	16:51:21.54	80:04:20.11	80:04:21.46	3039.00	South Side of between Section AA & BB
2	2023-2024	Temporary Dump	Waste	0.20	5.00	16:51:19.43	16:51:21.69	80:04:18.73	80:04:21.54	11278.00	South Side of between

											Section AA & BB
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4A.7.3: Existing Stack

SI.No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Stack Quantity (m³)	Existing Stack Location
						From	To	From	To		
1	2022-2023	Not Applicable	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	2023-2024	Not Applicable	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.7.4: New Stack

SI.No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Stack Quantity (m³)	New Stack Location
						From	To	From	To		
1	2022-2023	Not Applicable	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	2023-2024	Not Applicable	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.8: Mineral Waste Handling To Utilize As Minor Mineral

SI.No.	Year	Dump ID	Type of Dump	Proposed Area (ha)	Quantity Handled (t)	Quantity Recovered (t)	Name Of Minor Mineral	Alternative Waste Utilization (m³)
1	2022-2023	Not applicable	Nil	Nil	Nil	Nil	Nil	Nil
2	2023-2024	Not applicable	Nil	Nil	Nil	Nil	Nil	Nil

4A.9: Use of Minerals

SI.No.	Proposed Use Of Mineral	Name Of Mineral	Relevant Use Of Mineral	Physical Specifications	Chemical Specifications
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1	Captive use in Own Industry	LIMESTONE	Manufacturing Of Clinker by using Limestone, Laterite and Iron Ore	Colour-Light grey to dark grey, Grindability - 9.4 to 13.1 KWH/Short T, RQD- Average 70-75%. crushed limestone output size is -75mm	CaO-35 to 47% SiO2- 9 to 18%, MgO- 0.5 to 0.8%
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\* Choose among these:

1. Captive use in own industry

2. Direct Selling

3. Selling Post-Beneficiation /Up-gradation

\*Select more than one, if applicable

Approved

# **Chapter 4 B : Mining Operations UG : NA**

Approved



## Chapter 5: Sustainable Mining

### 5.1: Sustainable Mining and SDF Implementations in Compliance of Rule 35 of MCDR'2017

Sustainable Development Unit constituted with a team comprising of Technical, Financial, CSR, HRD, Environmental Heads to look after Sustainable Development at unit level. The unit is monitoring in submission of Star Rating template through online in prescribed time. All due precautions being taken for carrying out Mining operations for sustainable Mining. Utilizing Nonel inhole detonators to control ground vibrations, fly rock. An extent of 3.50 Ha. of greenbelt area developed all along the mining lease boundary. Wet Drilling is being practiced to avoid the generation of dust during drilling. Water spraying on haul roads is being done with mobile water tankers. The amount spent towards various CSR Activities viz., Supply of water for Agriculture, Conducting Medical camps in nearby Villages, Promotion of Sanitation, Distribution of Medicines, Covid related Items, Conducted Vocational Training programs etc., by The RAMCO CEMENTS LIMITD. The Amount spent towards various CSR and Environment protection activities for the years 2019-20,2020-21and 2021-2022 is Rs.963000/-,Rs.531000/- and Rs.408000/-respectively.

(Total 200 characters)

Compliance of Vishakha Committee Guidelines for prevention of women harassment at workplace	Not Applicable
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### 5.2: CSR INITIATIVES

#### 5.2.1: 2022-2023

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
<b>5.2.1.1: Area to be Developed for Recreation</b>	
Area (Ha)	Area (Ha)
0.00	0.00
<b>5.2.1.2: Area for Water Storage &amp; Recharge Facility</b>	
Area (Ha)	Area (Ha)
0.00	0.00
<b>5.2.1.3: Efforts Made towards Housing for Local Communities</b>	

Number of Houses	Number of Houses
0	0

#### 5.2.1.4: Efforts Made towards Providing Transport to Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.5: Efforts Made towards Providing Healthcare to Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.7: Efforts Made towards Skill Development Programs to Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.8: Efforts Made to Promote Education & Knowledge Based Initiatives

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.9: Communication Facilities Provided to Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

#### 5.2.1.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities

Number of Beneficiaries	Number of Beneficiaries
0	0

5.2.1.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
0	0	0
5.2.1.12: Awareness Program among Mine Workers for Swatchata		
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held	
0	0	
5.2.1.13: Efforts for green energy		
Total energy consumption (KWh)	Green energy consumption (% of total)	
0.00	0.00	
5.2.1.14: Water & recycled use		
Total water consumption (KLD)	Water recycled (% of total)	
0.00	0.00	

5.2.2: 2023-2024

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.2.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.00	0.00
5.2.2.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.08	0.08
5.2.2.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
0	0

**5.2.2.4: Efforts Made towards Providing Transport to Local Communities**

Number of Beneficiaries	Number of Beneficiaries
50	50

**5.2.2.5: Efforts Made towards Providing Healthcare to Local Communities**

Number of Beneficiaries	Number of Beneficiaries
200	200

**5.2.2.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities**

Number of Beneficiaries	Number of Beneficiaries
50	50

**5.2.2.7: Efforts Made towards Skill Development Programs to Local Communities**

Number of Beneficiaries	Number of Beneficiaries
10	10

**5.2.2.8: Efforts Made to Promote Education & Knowledge Based Initiatives**

Number of Beneficiaries	Number of Beneficiaries
20	20

**5.2.2.9: Communication Facilities Provided to Local Communities**

Number of Beneficiaries	Number of Beneficiaries
0	0

**5.2.2.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities**

Number of Beneficiaries	Number of Beneficiaries
20	20

**5.2.2.11: Adoption of ODF**

Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
1	Nil	10

5.2.2.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
1	1

5.2.2.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.2.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
180.00	0.00

5.3: Rehabilitation & Resettlement of Affected Persons

Particular	2022-2023	2023-2024
Proposed Number of Project Affected Persons(PAP)	0	0
Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood	0	0
Proposed Number of Person for Skill Training	0	0
Proposed Number of Person Likely to get Direct Employment	0	0
Proposed Number of Person Likely to get Indirect Employment	0	0
Proposed Project Affected Families Skilled and Absorbed	0	0
Proposed Number of Project Affected Families	0	0



Chapter 6: Progressive Mine Closure Plan

6.1: Status of Land

Total Area Degraded					Total mined out area Reclaimed and Rehabilitated			Other Areas Reclaimed and Rehabilitated	
Total area under excavation in the lease		Area under Dumps(in hect)	Area under utility services(in hect)	Area under Stack yards(in hect)	Mined out Area Reclaimed but not rehabilitated(in hect)	Mined outArea fully Rehabilitated from Reclaimed area(in hect)	Area under Water Reservoir considered Rehabilitated (in hect)	Stabililized Waste dump Rehabilitated (in hect)	Virgin area under Green Belt (in hect)
Area under mining operation	Mined Out area in the lease								
2.30	0.00	0.00	18.70	1.00	0.00	0.00	0.00	0.00	3.50

6.2: Progressive Reclamation and Rehabilitation Plan

6.2.1: Backfilling

Quantity of Waste / Fill Material Available at Site (m³)	Nil
Availability of Top Soil for Spreading (m³)	Nil
Proposed Spread Area (m²)	Nil

6.2.1.1: Year Wise Proposal

Sl.No	Year	Pit ID	Area (m²)	Top RL	Bottom RL	Estimated Expenditure (₹ INR)
1	Nil	Nil	Nil	Nil	Nil	Nil

6.2.2: Water Reservoir

Average Rainfall of The Area (mm)	904.00
Proposed Area under Water Storage	10790 sq. m

6.2.2.1: Preparations For Ground Water Recharging

6.2.2.1.1: Drilling Holes	
Year	Proposed no of Holes to be Drilled
2022-2023	Nil
2023-2024	0.00
6.2.2.1.2:Preparation of Course Gravel Bed	
Year	Proposed Area of Bed (LxW)
2022-2023	0.00
2023-2024	0.00
Please specify, if others	
NIL	

6.2.2.2: Protective measures (Please specify running meter)

6.2.2.2.1: Fencing					
Year	Proposed Fencing Length (m)	Latitude(dd:mm:ss.ss)		Longitude(dd:mm:ss.ss)	
		From	To	From	To
2022-2023	Nil	Nil	Nil	Nil	Nil
2023-2024	Nil	Nil	Nil	Nil	Nil
6.2.2.2.2: Retaining Wall					
Year	Proposed Wall Length (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	

		From	To	From	To
2022-2023	0	Nil	Nil	Nil	Nil
2023-2024	100	16:51:18.45	16:51:22.03	80:04:17.77	80:04:22.80

6.2.2.2.3: Garland Drains					
Year	Proposed Bund Length (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
		From	To	From	To
2022-2023	0	Nil	Nil	Nil	Nil
2023-2024	250	16:51:22.53	16:51:18.68	80:04:17.92	80:04:23.18

6.2.3: Green Belt Development

6.2.3.1: Cumulative work done (upto end of previous block of five years)

SI.No	Total Expenditure Incurred up to Last Year (INR)	Area Covered (Ha)	Number of Plants	Survival Rate (%)
1	3037000.00	3.50	7287	44.00

6.2.3.2: Year Wise Proposal

SI.No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (₹ INR)
1	2022-2023	0	0	Nil	0	0
2	2023-2024	All along the boundary west side for densification	0	1000	85	560000

6.2.4: Use of Shallow Pits

**6.2.4.1: Cumulative Work Done (upto end of previous block of five years)**

SI.No	Pit ID	Work Done	Area covered (m <sup>2</sup> )	Total Expenditure Incurred (up to last five year block) (₹ INR)
1	0	Nil	Nil	Nil

**6.2.4.2: Year Wise Proposal**

SI.No	Year	Pit ID	Total Area(Ha)	Area Proposed for Crops (Ha)	Suitable Crops	Area Proposed for Grass (Ha)	Total Proposed Expenditure (₹ INR)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Remarks
								From	To	From	To	
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**6.2.5: Pisciculture**

<b>6.2.5.1: Total Expenditure incurred as on Date (INR)</b>	Nil
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**6.2.5.2: Cumulative work done as on Date**

SI.No	Pit ID	Area (m <sup>2</sup> )	Expenditure (₹ INR)
1	Nil	Nil	Nil

**6.2.5.3: Year Wise Proposal**

SI.No	Year	Pit ID	Area (m <sup>2</sup> )	Estimated Expenditure (₹ INR)
1	Nil	Nil	Nil	Nil

<b>6.2.5.4: Source of Water for Pisciculture</b>	Nil
--	-----

<b>6.2.5.5: Whether the quality of water has been assessed &amp; found to be suitable for Pisciculture</b>	No
--	----

6.2.6: Recreational Facility

6.2.6.1: Total Expenditure Incurred (up to last five year block) (INR)	Nil
--	-----

6.2.6.2: Cumulative work done as on Date

SI.No	Pit ID	Area (m <sup>2</sup> )	Expenditure (₹ INR)
1	Nil	Nil	Nil

6.2.6.3: Year Wise Proposal

SI.No	Year	Type of Recreational Facility	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Estimated Expenditure (INR)
				From	To	From	To	
1	2022-2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	2023-2024	Nil	Nil	Nil	Nil	Nil	Nil	Nil

6.2.7: Dump Area Stabilization & Development

SI.No	Year	Dump ID	No of Terraces	Average Height of Terraces (m)	Length of Toe Wall (m)	Length of Garland Drain (m)	Area Stabilized (Ha)	Method of Stabilization	Estimated Expenditure (₹ INR)	No of Check Dams
1	2023-2024	Temporary OB dump	1	5.00	100.00	110.00	Nil	With Plantation	45000.00	1

6.2.8: Other Form of Reclaiming the Area

6.2.8.1: Cumulative work done as on Date

SI.No	Total Expenditure incurred as on Date (INR)	Work Done
1	Nil	Nil



6.2.8.2: Year Wise Proposal

SI.No	Year	Work Proposals	Estimated Expenditure (INR)
1	2022-2023	Not applicable	Nil
2	2023-2024	Not applicable	Nil

6.2.9: TopSoil Management

6.2.9.1: Cummulative Work Done as on Date

SI.No	Top Soil Generated (m³)	Top Soil Utilized (m³)	Topsoil Stored (m³)	Total expenditure incurred as on date (₹)
1	Nil	Nil	Nil	Nil

6.2.9.2: Year Wise Proposal

SI.No	Year	Topsoil Generated (m³) (A)	Topsoil Utilized (m³) (B)	Topsoil Stored (m³) (A-B)	Estimated Expenditure (INR)
1	2022-2023	Nil	Nil	Nil	Nil
2	2023-2024	Nil	Nil	Nil	Nil

6.2.10: Tailings Dam Management

SI.No	Year	Yearly generation of Tailing (m³) (A)	Total capacity of Tailing Pond (m³)	Measures Proposed for Periodic Desilting	Yearly Utilization of Tailing (m³) (B)	Disposal of Tailing to Tailing Pond (m³) (A-B)	Tailing Dam Design	Structural Stability Studies
1	2022-2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	2023-2024	Nil	Nil	Nil	Nil	Nil	Nil	Nil

6.2.11: Land Use of Lease Area at the Expiry of Lease Period

Total Area Degraded				Non Degraded area	Total mined out area Reclaimed and Rehabilitated			Other Areas Reclaimed and Rehabilitated			
Mined Out area in the lease	Area under Dumps(in hect)	Area under the Tailing Dam	Area under utility services(in hect)	Area undisturbed/virgin	Mined out Area Reclaimed but not rehabilitated(in hect)	Mined outArea fully Rehabilitated from Reclaimed area(in hect)	Area under Water Reservoir considered Rehabilitated (in hect)	Stabilized Waste dump Rehabilitated (in hect)	Virgin area under Green Belt (in hect)	Rehabilitated Area under utility services(in hect)	Rehabilitated Area under Tailing dam (in hect)
114.50	2.50	0.00	25.45	17.55	0.00	0.00	0.00	0.00	5.45	0.00	0.00

## Chapter 7: Financial Assurance/ Performance Surety (AREA PUT TO USE)

**2022-2023**

Consolidated View of Financial Assurance

Sl.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	2.30	1.90	4.20
2	Topsoil stacking	0.00	0.00	0.00
3	Overburden/Waste Dumping	0.00	0.07	0.07
4	Mineral Storage	1.00	0.00	1.00
5	Infrastructure (Workshop, Administrative Building etc.)	3.05	0.00	3.05
6	Roads	4.50	0.00	4.50
7	Railway	11.05	0.00	11.05
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	21.90	1.97	23.87

**2023-2024**

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	4.20	7.15	11.35
2	Topsoil stacking	0.00	0.00	0.00
3	Overburden/Waste Dumping	0.07	0.23	0.30
4	Mineral Storage	1.00	0.00	1.00
5	Infrastructure (Workshop, Administrative Building etc.)	3.05	3.10	6.15
6	Roads	4.50	1.25	5.75
7	Railway	11.05	0.00	11.05
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.10	0.10
	Total	23.87	11.83	35.70

Financial Assurance

Financial Assurance

Category A Mining Lease

Total Area Proposed to be put to use in hect(Year 1 to 5)	Amount of Bank Gurantee (Lac INR)	Valid till (dd/mm/yyyy)	Upload copy of Bank Gurantee as attachment
35.70	178.50	31/03/2024	<a href="#">10_Budawada_Bank_Guarantee.pdf</a>

Category B Mining Lease

SI.No	Total Area Proposed to be put to use in hect(Year 1 to 5)	Amount of Bank Gurantee (Lac INR)	Valid till (dd/mm/yyyy)	Upload copy of Bank Gurantee as attachment
1	Nil	Nil	Nil	Nil

Approved



## Chapter 8: Review of Previous Proposals (Not applicable for fresh grant)

### 8.1: General

#### 8.1.1: Lease Area Utilization

Sl. No.	Type of land use (in ha)	Area at the beginning of the proposal period	Area proposed under activity	Actual Area utilized in the proposal period	Deviation	Reasons for deviation
1	Mining	0.54	10.91	1.76	Nil	Due to lack of proper approach road and lack of demand
2	Mineral storage	0.00	2.10	1.00	Nil	Nil
3	Mineral Beneficiation plant	0.00	0.00	0.00	Nil	Nil
4	Township	0.00	0.00	0.00	Nil	Nil
5	Tailing Pond	0.00	0.00	0.00	Nil	Nil
6	Railways	0.00	11.05	11.05	Nil	Nil
7	Roads	4.00	3.45	0.50	Nil	Nil
8	Infrastructure (Workshop, administrative building etc.)	0.00	3.05	3.05	Nil	Nil
9	OB/waste dump	0.00	0.60	0.00	Nil	Nil
10	Top soil preservation	0.00	0.00	0.00	Nil	Nil
11	Others	0.00	0.10	0.00	Nil	Nil
12	Total area put to use	4.54	31.26	17.36	Nil	Nil
13	Excavated area reclaimed	0.00	0.00	0.00	Nil	Nil



	Boreholes	Pits	Trenchs	Boreholes	Pits	Trenchs	Boreholes	Pits	Trenchs	
Number of Boreholes/ Pits/ Trenches	0	0	0	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Boreholes Meterage (If Boreholes selected in first row) (m)	0			0			0			0
Grid	0			0			0			0
G Axis upgradation during Proposal Period as per guidelines of MEMC Rule 2015)	0			0			0			0
Area converted under G1 from G2/G3	Nil			Nil			Nil			Nil

### 8.2.2: Mine Development (Opencast/ Underground/ Both/ Dump Mining)

Particulars	Proposals	Actual	Deviation	Reasons for deviation
8.2.2.1: Generation of Ore/Waste While Development				
Ore	2237754	457794	-1779960	Due to lack of proper approach road to reach nearest public road
Waste	12090	0	-12090	Due to lack of proper approach road to reach nearest public road.
Generated Waste while ROM recovery	0	0	0	0
Dumping Site (For Surface)	0	0	0	0
Removal of waste/ over burden in cubic meters	12090	0	Nil	Due to lack of proper approach road to reach nearest public road.

8.2.2.2: Excavation				
Lateral extent	0	0	0	0
Vertical extent	0	0	0	0

8.2.3: Mining operation: Dump Mining

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Handling of Material	0	0	0	0
Waste Generated post recovery	0	0	0	0
Dumping site for waste	0	0	0	0

8.2.4: Zero Waste Mining

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Alternative use / Disposal of Waste Generated (excluding top soil)	0.00	0.00	0.00	0

8.2.5: Backfilling

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Site (Co-ordinates)	0	0	Nil	As the Mineral is not exhausted
Area	0	0	Nil	Nil
Depth	0	0	Nil	Nil
Volume Backfilled (CuM)	0	0	Nil	Nil
Backfilled Area available for Reclamation and Rehabilitation	0	0	Nil	Nil
Backfilled Area Reclaimed and Rehabilitated	0	0	Nil	Nil
Balance Backfilled Area	0	0	Nil	Nil

**8.2.6: Production of Mineral(s)**

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
8.2.6.1: ROM				
Opencast	2237754.0000	457794.0000	-1779960.0000	Due to lack of proper approach road to reach nearest public road.
8.2.6.2: Cleaned Ore				
Opencast	2237754.0000	457794.0000	-1779960.0000	Due to lack of proper approach road to reach nearest public road.
Dump Mining	0.0000	0.0000	0.0000	0
Recovery from Mineral Rejects or Tailings	0.0000	0.0000	0.0000	0
Total	2237754.0000	457794.0000	-1779960.0000	Due to lack of proper approach road to reach nearest public road.

**8.2.7: Handling of Mineral Rejects/ Sub-Grade**

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Generation of mineral rejects				
Opencast	0	0	Nil	Nil
Dump Mining	0	0	Nil	Nil
Other recovery	0	0	Nil	Nil
Stacking of mineral rejects/ sub-grade mineral (Dump Id)	0	0	Nil	Nil
Blending of mineral reject / sub-grade	0	0	Nil	Nil

**8.2.8: Environment Compliances**



Particulars	Proposals	Achievement	Deviation	Reasons for deviation
<b>8.2.8.1: Top soil</b>				
Generation	0	0	0	0
Utilization	0	0	0	0
Stacking (Dump Id)	0	0	0	0
Reclamation	0	0	0	0
Rehabilitation	0	0	0	0
<b>8.2.8.2: Afforestation (Dumps/Benches/Backfilled Area etc.)</b>				
2020 - 2021	0	0	0	0
2021 - 2022	0	0	0	0
2022 - 2023	0	0	0	0
Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil
<b>8.2.8.3: Afforestation (Green Belt)</b>				
2020 - 2021	1000	3027	2027	Achievement 302%
2022 - 2023	500	550	50	Achievement 110%
Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil
Construction of check dams	Nil	Nil	Nil	Nil
Construction of Garland Drain (in meter)	Nil	Nil	Nil	Nil
Construction of Retaining Walls (in meter)	Nil	Nil	Nil	Nil
<b>8.2.8.4: Tailings</b>				
Generation	Nil	Nil	Nil	Nil

Utilization	Nil	Nil	Nil	Nil
Disposal	Nil	Nil	Nil	Nil

### 8.3: Socio-Economic Review

#### 8.3.1: Rehabilitation & Resettlement for Project Affected People

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
No. of Project Affected People (PAP)	0.0000	0.0000	Nil	Nil
%age of PAP for whom alternate arrangements made for sustained livelihood	0.0000	0.0000	Nil	Nil
% of project affected families given employment	0.0000	0.0000	Nil	Nil
% of project affected families who have been skilled by the lessee and absorbed (% of total employment given to affected families)	0.0000	0.0000	Nil	Nil

#### 8.3.2 : Grievance Redressal

Grievances Received	2020 - 2021	2021 - 2022	Nil	Nil	Nil
	0	0			
Grievances Redressed	0	0			

#### 8.3.3: Welfare and socio-economic development programs for local communities

Particulars	2020 - 2021	2021 - 2022	Nil	Nil	Nil
<b>8.3.3.1 Support for Drinking Water &amp; Agriculture</b>					

No. of Water Storage Tanks constructed	0	0	Nil	Nil	Nil
Drinking Water Facilities provided (Bore wells/ Pumps etc.)	0	0	Nil	Nil	Nil
Irrigation Support provided (Canals/ Pumps etc.)	0	0	Nil	Nil	Nil
No. of Water tanks De-silted	0	0	Nil	Nil	Nil
Water Treatment facilities provided (A/NA)	0	0	Nil	Nil	Nil
Amount of Water treated (in kL) (if selected A in above)	0	0	Nil	Nil	Nil
<b>8.3.3.2 Support to Health &amp; Medical Services</b>					
No. of persons identified from Occupational health diseases	0	0	Nil	Nil	Nil
No. of Health Camps/ Medicine Camps Organized	4	2	Nil	Nil	Nil
<b>8.3.3.3 Support to Skill development &amp; Education</b>					
Vocational Training Provided/ Support Provided					
No. of employees undergone Vocational training	5	1	Nil	Nil	Nil
No. of other persons undergone Vocational training	1	10	Nil	Nil	Nil
Number of Literacy & Education Camps held/ Supported	0	0	Nil	Nil	Nil
<b>8.3.3.4 Support to Transportation Services &amp; Infrastructure</b>					
Expenditure on Transportation Services & Infrastructure	25000	25000	Nil	Nil	Nil
Road development (m) in the peripheral area (not lease area)	0	0	Nil	Nil	Nil

No. of Public transport support provided (Ambulance/Buses/ School Vans etc)	1	1	Nil	Nil	Nil
<b>8.3.3.5 Swatchata Programs: Creating/providing sanitation and healthy condition in and around the mine area</b>					
Adoption of ODF within mining lease area					
No. of Toilets built in the Lease Area	0	0	Nil	Nil	Nil
Adoption of ODF in nearby villages					
No. Of Toilets built in the villages	0	0	Nil	Nil	Nil
Provision for greenage recreational facility (Within Lease Area/ Outside)					
Recreational Area Type (Picnic Spot/ tracks/Park Etc)	0	0	Nil	Nil	Nil
Area covered (For within Lease Area only)	0	0	Nil	Nil	Nil
Awareness program among Mine workers for Swatchata					
No. of Swatchhta Programmes held	1	1	Nil	Nil	Nil

# **Chapter 9 : Impact Assessment (NA)**

Approved



## Chapter 10: Annexures

### 1. Upload Document

#### 1.1 Upload Document

Sl.No.	Title	Is Upload	Document (only pdf allowed)
1	Letter of Intent /Letter of lease grant	Nil	<a href="#">1 Letter of grant orders including company name change.pdf</a>
2	Copy of lease deed executed	Nil	<a href="#">2 Lease Deeds intial and 50y extension.pdf</a>
3	Copy of Declaration of Owner/Nominated Owner in case of Company/partnership firm	Nil	<a href="#">3 Board Resolution for Nominated Owner.pdf</a>
4	ID & Address Proof of Owner/ Nominated Owner	Nil	<a href="#">4 Photo ID &amp; Address Proof of Nominated Owner.pdf</a>
5	Copy of Environment and Forest Clearence, Consent to Establish, Consent to Operate	Nil	<a href="#">5 Budawada EC CEF CFO FC.pdf</a>
6	Copy of Registration of Company (RoC)/Partnership firm (Registration) & Deed	Nil	<a href="#">6 Certificate of incorporation List of Board of Directors of TRCL.pdf</a>
7	Consent letter for Qualified Person	Nil	<a href="#">7 Certificate -Budawada Mine MMP from Owner.pdf</a>
8	Experience & Qualification Details of Qualified Person	Nil	<a href="#">8 QP Qualification with Experiance and Aadhar.pdf</a>
9	Certificate from QP	Nil	<a href="#">9 Consent Letter from QP Budwada Mine.pdf</a>
10	Copy of Bank Guarantee	Nil	<a href="#">10 Budawada Bank Guarantee.pdf</a>
11	Copy of Performance Surety	Nil	<a href="#">11 Budawada Boundary Pillars photos .pdf</a>
12	Copy of MDPA (as applicable)	Nil	<a href="#">12 Certificate from QC for chemical analysis of bore holes.pdf</a>

13	Exploration details	Nil	<a href="#">13_Budawada_RF_Mines_FORM-K_Part-1.pdf</a>
14	Copy of feasibility Report	Nil	<a href="#">14_Budawada- Feasibility report 280323.pdf</a>
15	Copy of Study reports conducted as per Para 4.3.1	Nil	<a href="#">15_Budawada Bulk density report of Budawada 12042023.pdf</a>
16	Chemical and Mineralogical analysis report	Nil	<a href="#">16_Budawada_RF_Mines_FORM-K_Part-2.pdf</a>
17	Any other Report or Certification as required in the submitted Document.	Nil	<a href="#">17_Permissions, Licences and Monitoring Reports.pdf</a>
18	Copy of Scale relaxation approval granted(if applicable)	Yes	<a href="#">18_Surveyor_Certificate.pdf</a>
19	Mineral processing flowsheet with stage wise recovery	Nil	<a href="#">19_Chemical analysis with NABL lab. Certificate.pdf</a>
20	Any Other	Yes	<a href="#">20_Approved Mine Plan Letters.pdf</a>

## Chapter 11: Plates (OC)

### 1. Upload Document

#### 1.1 Upload Document

S.N.	Title	Is Upload	Document
1	Lease sketch plan;	Nil	<a href="#">BWD ML Lease Plan intial 280323.pdf</a>
2	Surface Plan (.KMZ format)(Georeferenced); A statutory plan as per MCDR, 2017. The Plan should be submitted showing different color codes for:(1) Active Pits & Excavation area(2) Excavated area reclaimed & rehabilitated (3)Active dumps (4) Stabilized & rehabilitated dump area , (5) Green belt (6) Mineral Stacks (7) Utilities such as plant, buildings etc (8) Lease boundary along with other details.)	Nil	<a href="#">BWD Surface Plan MMP as on 280323.kmz</a>
3	Surface Geological Plan of the lease (.KMZ format)(Georeferenced); The Plan should be submitted showing different color codes for : (1) Lithological/Geological Occurance (2) Area under G1,G2,G3 & G4 (3) Active pits & Excavation area (4) Dump Area (5) Mineral Stacks (6) Lease boundary along with other details.)	Nil	<a href="#">BWD Surface Geological Plan MMP as on 2803123.kmz</a>
4	Surface Geological sections (in Pdf format); Geological sections with different color coding depicting all the features shown in Surface Geological Plan. )	Nil	<a href="#">Budawada_RF MMP Surface Geological Plan, Geological Sections 130423.pdf</a>
5	Five year Production and Development plan (.KMZ format)(Georeferenced); The Plan should be submitted showing different color coding for: (1) Active Pit and Excavation area ,	Nil	<a href="#">BWD Poduction &amp; Development Plans 2022-23 &amp; 2023-24 280323.kmz</a>

	(2) Year wise excavation proposal for year I to V (3) Active dump and yearwise dump proposal for year I to V (4) Year wise Dump working proposal for year I to V (6) Lease boundary (with reference to chapter 4) along with other details.)		
6	Five year Production and Development sections (in pdf format); Year wise excavation and dumping proposals with different color coding depicting all the features as shown in the Five year Production and development plan.)	Nil	<a href="#">Budawada RF MMP P&amp;D, Sections 2022-23 2023-24 13042023.pdf</a>
7	Progressive Mine Closure Plan (.KMZ format)(Georeferenced); The Plan should be submitted showing different color coding for : (1) Yearwise excavated area Reclaimed & rehabilitated for year I to V (2) Year wise dump area to be stabilized and dump area to be rehabilitatd for year I to V (3) Year wise Green area proposed from year I to V.(4) Any other reclamation and rehabilitation measures proposed.(5) Lease boundary ( with reference to chapter 6) along with other details.)	Nil	<a href="#">BWD Progressive Mine Closure Plan MMP 280323.kmz</a>
8	Progressive mine Closure sections (in pdf format); Year wise Progressive mine clouser sections showing all the yearwise reclamation, rehabilitaion proposals as depicted in the Progessive mine clouser plan.)	Nil	<a href="#">Budawada RF MMP PMCP Plan, Sections 13042023.pdf</a>
9	Conceptual Plan (.KMZ format)(Georeferenced); The Plan should depict the staus of lease area as envisaged at the end of life of Mine showing all the details. Status of land use shall be depicted by different color coding.)	Nil	<a href="#">BWD Conceptual Plan MMP 280323.kmz</a>
10	Conceptual Sections (pdf) format;	Nil	<a href="#">Budawada RF MMP Conceptual Plan Sections 13042023.pdf</a>
11	Geo referenced Cadastral Plan; Duly certified by the State Government)	Nil	<a href="#">BWD Approved DGPS plan MMP 280323.pdf</a>

12	Financial Assurance Plan (KMZ);	Nil	<a href="#">BWD_Financial_Assurance_Plan_MMP_280323_.kmz</a>
13	Environmental Plan (.KMZ format)(Georeferenced); As per MCDR, 2017 indicating all the details.)	Nil	<a href="#">BWD_Environment_Plan_280323.kmz</a>
14	Any other plan/section as deemed necessary by approving authority;	Yes	<a href="#">Key_Plan_Budawada_MMP_280323.pdf</a>
15	Five Year Production and Development sections (in pdf format);	Yes	<a href="#">Budawada_RF_MMP_Surface_Plan,_Financial_assurance_Environment_plan_280323.pdf</a>
16	LEVEL WISE SLICE PLAN; LEVEL WISE SLICE PLAN (PDF FORMAT IN VISIBLE SCALE))	Nil	Nil

# Chapter 11 : Plates(UG) : NA

Approved



I/62870/2024

स्पीड पोस्ट

ई-मेल



सत्यमेव जयते

**भारत सरकार / Government of India**  
**पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय**  
**Ministry of Environment, Forest and Climate Change**  
**विजयवाड़ा में उप कार्यालय / Sub Office at Vijayawada**  
**ग्रीन हाउस, गोपालारेड्डी रोड, विजयवाड़ा, आंध्र प्रदेश - 520010**  
**Green House, Gopalareddy Road, Vijayawada, Andhra Pradesh - 520010.**



Tel: +91 866 - 2419787, +91 866 - 2419788, E-mail: [iro.vijayawada-mefcc@gov.in](mailto:iro.vijayawada-mefcc@gov.in), [suresh.pasupuleti@gov.in](mailto:suresh.pasupuleti@gov.in)

फाइल संख्या: IRO/VIJ/EPA/EC-A/101/05-86/2023

दिनांक: 12.01.2024

सेवा में,

**श्री पंकज वर्मा**

अतिरिक्त निदेशक, सदस्य सचिव (गैर-कोयला खनन),

दूसरी मंजिल, पृथ्वी ब्लॉक,

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,

इंदिरा पर्यावरण भवन, जोरबाग रोड,

अलीगंज, नई दिल्ली - 110 003।

ई-मेल: [pankaj.verma@nic.in](mailto:pankaj.verma@nic.in)

विषय: मैसर्स द रैमको सीमेंट्स लिमिटेड की बुदावाड़ा चूना पत्थर खदान ।

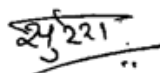
संदर्भ: मंत्रालय का पर्यावरण मंजूरी पत्र संख्या J-11015/150/2008-IA II (M) दिनांक 10.12.2009, 28.04.2023 (ईसी का स्थानांतरण) और 07.08.2023 (संशोधन)।

महोदय,

मुझे उपरोक्त विषय और संदर्भ पत्र पर आपका ध्यान आकर्षित करने का निर्देश दिया गया है और अनुरोध है कि संलग्न पत्र के खिलाफ आवश्यक कार्रवाई की जाए।

भवदीय,

संगलनकउपरोक्त :

  
 (डॉ। सुरेश बाबु पसुपुलेटी)  
 संयुक्त निदेशक

प्रतिलिपि :

1. **निदेशक (एस)**, अनुपालन और निगरानी प्रभाग, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली-110003। ई-मेल: [moefcc-monitoring@gov.in](mailto:moefcc-monitoring@gov.in) जानकारी एवं आगे की आवश्यक कार्यवाही।
2. **प्लांट हेड**, मैसर्स द रैमको सीमेंट्स लिमिटेड (पूर्व में मद्रास सीमेंट्स लिमिटेड), कुमारसामी राजा नगर - 521 457, जगैयापेट मंडल, कृष्णा जिला, आंध्र प्रदेश। ई-मेल: [ihprasad@ramcocements.co.in](mailto:ihprasad@ramcocements.co.in), [srraju@ramcocements.co.in](mailto:srraju@ramcocements.co.in) जानकारी और आगे की आवश्यक कार्रवाई के लिए।
3. गार्ड फाइल



**भारत सरकार / Government of India**  
**पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय**  
**Ministry of Environment, Forest and Climate Change**  
**विजयवाड़ा में उप कार्यालय / Sub Office at Vijayawada**  
**ग्रीन हाउस, गोपालारेड्डी रोड, विजयवाड़ा, आंध्र प्रदेश – 520010**  
**Green House, Gopalareddy Road, Vijayawada, Andhra Pradesh - 520010.**



**Tel: +91 866 – 2419787, +91 866 – 2419788, E-mail: [iro.vijayawada-mefcc@gov.in](mailto:iro.vijayawada-mefcc@gov.in), [suresh.pasupuleti@gov.in](mailto:suresh.pasupuleti@gov.in)**

File No. IRO/VIJ/EPA/EC-A/101/05-86/2023

Date: 12.01.2024

To

**Shri Pankaj Verma**

Addl. Director, Member Secretary (Non-Coal Mining),  
 2<sup>nd</sup> Floor, Prithvi Block,  
 Ministry of Environment, Forest and Climate Change,  
 Indira Paryavaran Bhawan, Jorbagh Road, Aliganj,  
 New Delhi – 110 003.  
 E-mail: [pankaj.verma@nic.in](mailto:pankaj.verma@nic.in)

**Sub:** Examination of reply submitted by Budawada Limestone Mine (ML area 160 Ha and Production Capacity 1.1 MTPA) at village Budawada, Jaggayyapet Taluk, Krishna Distt., Andhra Pradesh by M/s The Ramco Cements Limited (formerly M/s. Madras Cements Limited) - reg.

**Ref:** 1. Ministry's Environmental Clearance Letter No. J-11015/150/2008-IA II (M) dated 10.12.2009, 28.04.2023 (Transfer of EC) and 07.08.2023 (Amendment).  
 2. This Office Letter of even no. dated 06.11.2023  
 3. Action Taken Report submitted vide letter No. RCL/MoEF&CC/51/2023-2024 dated 29.11.2023.  
 4. Action Taken Report submitted vide letter No. RCL/MoEF&CC/56/2023-2024 dated 04.12.2023.

Sir,

I am directed to draw your kind attention to the subject and reference letters cited above and to state that the above project was monitored by undersigned on 15.06.2023 for issue of certified compliance report. During monitoring various non-compliances were observed. Subsequently, letter was sent on 06.11.2023 to the Project Authorities (PAs) for taking corrective measures. Subsequently, the PAs have submitted Action Taken Report (ATR) vide their letter dated 29.11.2023 and 04.12.2023. As per Action Taken Report, which is required to be verified in the next round of monitoring, the condition wise reply is furnished below:

<b>1.</b>	<p><b>Wild life conservation plan shall be prepared in consultation with the office of the Chief Wild Life Warden and implemented within six months. The plan shall comprise of in-built monitoring mechanism with special emphasis to protection of Schedule-I species. The status of implementation shall be submitted to the Ministry. (Specific Condition No. ii; Partially complied)</b></p> <p><b>Observation made during monitoring on 15.06.2023:</b></p>
-----------	---

It is required to submit the wild life conservation plan at the earliest to Ministry and this Office. *(Specific Condition No. ii; Partially complied)*

**Action taken report submitted by the project proponent on 29.11.2023 and 04.12.2023:**

We have obtained latest authenticated list of Flora and Fauna from The DFO, Krishna Division, Vijayawada vide Letter Re. No. 1090/2023/TO dated 20.06.2023 stating that no wild life and schedule - I species are present in the core zone and buffer zone (10 km radius) of this mining lease area. We also submit that no wild life is observed, after opening the mine in the subject ML area.

We are regularly requesting The Chief Wild Life Warden, Andhra Pradesh (vide our letters dated 04.12.2009, 05.01.2010, 13.11.2012, 26.05.2014, 20.11.2015 and 11.05.2022 for Wild Life Conservation Measures, if any. Once again, we have requested the Chief Wild Life Warden for preparation of Wild Life Conservation Plan on 08.06.2023. Copy of the same is enclosed as Annexure - I. This letter is forwarded from Office of Principal Chief Conservator of Forests & Chief Wild Life Warden to The Chief Conservator of Forests, Rajahmundry to prepare necessary documentation vide Letter Re No. 21024/19/2022/WL-2 dated 29.06.2023. Copy of the same is enclosed as Annexure - I for your ready reference. We are in the process of preparation of Wild Life Conservation Plan accordingly. Once we obtain the Wild Life Conservation Plan, the same will be implemented and the status will be submitted to IRO, MoEF&CC, Vijayawada.

This is to submit that we have submitted The Wild Life Conservation Plan to The District Forest Officer, Krishna Division, Vijayawada covering our cement plant & 5 Nos. of captive limestone mines. Copy of the Acknowledgement is enclosed as Annexure-1 for your ready reference. Once we obtain the approval for this Wild Life Conservation Plan, the same will be implemented and the status will be submitted to IRO, MOEF&CC, Vijayawada.

**Review of Action Taken Report: Being complied**

As per the ATR submitted, it has been observed that the PAs have submitted the requisition to Govt. of Andhra Pradesh, Forest Department for Wild Life Conservation plan vide letters dated 04.12.2009, 05.01.2010, 13.11.2012, 26.05.2014, 20.11.2015 and 11.05.2022. The requisition is under process and letter is forwarded from Office of Principal Chief Conservator of Forests & Chief Wild Life Warden to The Chief Conservator of Forests, Rajahmundry to prepare necessary documentation vide Letter Re No. 21024/19/2022/WL-2 dated 29.06.2023.

In addition, PAs vide Letter No. RCL/Mines/677 dated 04.12.2023 submitted the Wild Life Conservation Measures Plan for the Cement Plant and 5 Nos. of Captive Limestone Mines.

	<b><i>It is required to expedite the Wildlife Conservation Plan from the Chief Wild Life Warden, Forest Department, Govt. of Andhra Pradesh and a copy of approved plant to be submitted to Ministry, New Delhi and this Office.</i></b>																								
2.	<p><b>Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records submitted to the Ministry. (Specific Condition No. xi; Partially complied)</b></p> <p><b>Observation made during monitoring on 15.06.2023:</b></p> <p>It is required to submit the fugitive emissions monitoring reports along with six monthly compliance reports on regular basis. (Specific Condition No. xi and General Condition No. iii; Partially complied)</p> <p><b>Action taken report submitted by the project proponent on 29.11.2023:</b></p> <p>The reports of fugitive emissions monitoring conducted in the month of September 2023 for the said mine are submitted along with half-yearly compliance report prepared for the period from April 2023 to September 2023. The copy of this half-yearly compliance report is forwarded to your august office through mail and is placed in our company's website.</p> <p><b>Review of Action Taken Report: Partially complied</b></p> <p>As per the ATR submitted, it has been observed that the PAs have monitored the fugitive emissions at three locations viz., drilling area, loading area and haul road on 11.09.2023 by third party monitoring agency M/s Universal Enviro Associates, Hyderabad which is accredited by NABL and MoEF&amp;CC. The fugitive emission monitoring reports were submitted along with six monthly compliance report vide letter no. RCL/MoEF&amp;CC/RBLM-239/648 dated 2.11.2023. As per the reports, the emissions are as follows:</p> <table><tr><th>SN</th><th>Location</th><th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th><th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th><th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th><th>NO<sub>x</sub> (µg/m<sup>3</sup>)</th></tr><tr><td>1</td><td>Drilling area</td><td>32.9</td><td>71.6</td><td>18.3</td><td>21.6</td></tr><tr><td>2</td><td>Loading area</td><td>28.9</td><td>70.1</td><td>16.9</td><td>21.4</td></tr><tr><td>3</td><td>Haul road</td><td>24.2</td><td>68.3</td><td>15.3</td><td>19.1</td></tr></table> <p><b><i>It is required to include Suspended Particulate Matter (SPM) in the fugitive emission monitoring parameters.</i></b></p>	SN	Location	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	1	Drilling area	32.9	71.6	18.3	21.6	2	Loading area	28.9	70.1	16.9	21.4	3	Haul road	24.2	68.3	15.3	19.1
SN	Location	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )																				
1	Drilling area	32.9	71.6	18.3	21.6																				
2	Loading area	28.9	70.1	16.9	21.4																				
3	Haul road	24.2	68.3	15.3	19.1																				
<p><b>Conclusion:</b> The PAs have complied or are in process of complying the conditions stipulated by the Ministry. In this context, information/action plans have been sought on following non-compliances/violations:</p>																									

1. It is required to expedite the Wildlife Conservation Plan from the Chief Wild Life Warden, Forest Department, Govt. of Andhra Pradesh and a copy of approved plan to be submitted to Ministry, New Delhi and this Office.
2. It is required to include Suspended Particulate Matter (SPM) in the fugitive emission monitoring parameters. (*Specific Condition No. xi and General Condition No. iii; Partially complied*)

This is for kind information and necessary action.

Encl: as above

Signed by

Dr. Suresh Babu Pasupuleti

Date: 16-01-2024 12:50:39

भवदीय / Yours faithfully,

Sd/-

(डॉ। सुरेश बाबु पसुपुलेटी)

(Dr. Suresh Babu Pasupuleti)

संयुक्त निदेशक (एस) / Joint Director (S)

Copy to:

1. **The Director (S)**, Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, NewDelhi-110 003. E-mail: [moefcc-monitoring@gov.in](mailto:moefcc-monitoring@gov.in) for kind information and further necessary action.
2. **The Plant Head**, M/s The Ramco Cements Limited (Formerly Madras Cements Ltd.), Kumarasamy Raja Nagar – 521 457, Jaggaiahpet Mandal, Krishna District, Andhra Pradesh. E-mail: [ihprasad@ramcocements.co.in](mailto:ihprasad@ramcocements.co.in), [srraju@ramcocements.co.in](mailto:srraju@ramcocements.co.in) for kind information and further necessary action.
3. Guard File.

File No.PRR05-11028/45/2018-SLNA-GIS-CORD

**GOVERNMENT OF ANDHRAPRADESH****O/o THE COMMISSIONER, PANCHAYAT RAJ & RURAL DEVELOPMENT  
& ADMINISTRATOR, APWALTA****D.No.12-47, PVS Empire, Pathuru Road, beside Reliance Digital, Tadepalle village,  
Guntur District - 522501.****From:**Sri. K.Sasidhar, I.A.S  
Commissioner, PR&RD,  
& Administrator, APWALTA,  
Tadepalli, Guntur District,  
Andhra Pradesh.**To,**M/s The Ramco Cements Limited,  
Jayanthipuram Village,  
Jaggayyapeta Mandal,  
Krishna District.  
(e-mail:mcljpm@ramcocements.co.in)**Lr.No.PRR05-11028/45/2018-SLNA-GIS-CORD, date:13/11/2021**

Sir,

**Sub:-** AP – CRD – APWALTA – Renewal of NOC to M/s The Ramco Cements Limited for dewatering of **12,365 KLD** of Mine seepage water for carrying out mining operations from their 5 lime stone mines and for utilization of **7000 KLD** of dewatered Mine Seepage Water for their Cement plant, Coal based Captive Thermal Power plant, Waste Heat Recover Boilers, Colony and associated 5 Nos. of Captive Limestone Mines located at Jayanthipuram Village, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh - Orders - Issued – Reg.

**Ref:-** 1.Lr.No:RCL/PR&RD/12/2021-2022, dt.28.05.2021 from M/s The RAMCO Cements Ltd.  
2.This office Lr.No.PRR05-11028/45/2018-SLNA-GIS-CORD,dated: 04.06.2021.  
3.Lr.No.1953/Hg-II/2021, Dt.26.10.2021, received from the Director, A.P. Ground Water and Water Audit Department.

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Adverting to the subject and references cited above, based on the recommendations of the Director, A.P. Ground Water and Water Audit Department, Vijayawada, the Grant of Permission (NOC) is hereby accorded to M/s The Ramco Cements Limited for dewatering of **12,365 KLD** of Mine seepage water for carrying out mining operations from their 4 lime stone mines and for utilization of **7,000 KLD** of dewatered Mine Seepage Water for their



Cement plant, Coal based Captive Thermal Power plant, Waste Heat Recover Boilers, Colony and associated 5 Nos. of Captive Limestone Mines located at Jayanthipuram Village, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh

The Grant of Permission (NOC) is issued subject to the implementation of the following conditions and the following recommendations are holds good only subject to the rainfall conditions and stage of development of the area in and around in the long run.

- The previously proposed recharge structures for 2,22,600 cum should be completed as soon as possible.
- The record of water level data from four existing piezometers should be maintained and to be provided periodically or when ever demanded by the regulatory agency.
- Maintain properly all fitted flow meters to the existing motors.
- Proper Maintenance is needed to the recharge structures.
- Developing green belt in large scale in and around the lease area and colony area to prevent the contamination of any in the long run and Maintain Properly.
- Don't let out the stagnated water of mine into streams / streamlets before ensure the quality.
- All these recommendations are subjected to the approval of Govt. of Andhra Pradesh and it reserves the right to stop the ground water usage during emergency periods or in case of deviations found from the specified terms and conditions.
- Register of daily ground water withdrawals shall be maintained regularly with the support of flow meters/water meters for accounting the water budget of the industrial unit.

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- The quality of ground water samples to be collected from the Existing bore wells and analysed twice in a year (during May and November) and the data may be sent to the O/o Deputy Director, Ground Water Department, Vijayawada.
- The officials of the State Ground Water and Water Audit Department (GW&WAD) and Rural Development Department must be allowed to inspect the plant area whenever necessary to monitor the implementations of above conditions and also to inspect recharge structures, groundwater abstraction structures, piezometers and data whenever found necessary.
- All the recommendations are subjected to Ground Water Scenario in and around the study area.
- Every year status of implementation of recharge activities report shall be submitted to the agencies concerned (CGWA, CGWB and SGW&WAD).
- It is mandatory to implement the germane guidelines of the Central Ground Water Authority constituted under sub-section (3) of Environment (Protection) Act, 1986.
- The permission accorded is liable to be cancelled in case of non-compliance of any of the conditions as mentioned above.
- This NOC is subject to prevailing Central / State Government rules / laws or Court orders related to dewater from mines / Construction of recharge or conservation or conservation structures / discharge of effluents or any such matter as applicable.
- The NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and be taking decisions independently of the NOC.
- Government of Andhra Pradesh / Ground water and Water Audit department / CGWA reserves the right to stop the Plant from using Ground water during emergencies or whenever the plant deviated from the relevant terms and conditions.

- The party has to give their consent to the above terms and conditions within a week and compliance regarding grounding of the recommendations within a month of receipt of the report/recommendations respectively.
- This NOC is valid for **three years** from the date of issue of this letter.

Yours faithfully,  
Kona Sasidhar IAS

13/11/2021

**Commissioner, PR & RD  
& Administrator, APWALTA.**

**Copy to:**

1. The Director, Ministry of Environment and Forests (I. A. Division), Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110 003 for information.
2. The Member Secretary, Central Ground Water Board, Bhujal Bhawan, Faridabad for information.
3. The Regional Director, Central Ground Water Board, Southern Region, Hyderabad for information.
4. The Director, A.P. Ground Water and Water Audit Department, A.P, Vijayawada for information.
5. The District Collector, Krishna District, Andhra Pradesh for information.

Signed by Kona Sasidhar  
Ias

Date: 13-11-2021 13:39:06

Reason: Approved