



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

To,

The President (Projects)  
THE RAMCO CEMENTS LIMITED  
The Ramco Cements Limited  
(Formerly Madras Cements Limited)  
Kalvatala project, Kolimigundla Mandal Nandyal District (Erstwhile Kurnool Dist)  
Andhra Pradesh  
Pin code:518 123, The ramco cements limited, Krishna, Andhra Pradesh-521457

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/AP/MIN/25556/2014 dated 10 Aug 2016. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	<b>EC24A001AP165932</b>
2. File No.	J-11015/443/2014-IA.II(M)
3. Project Type	Expansion
4. Category	A
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	RamcoBudawada Limestone Mine The Ramco Cements Limited (Formerly Madras Cements Ltd.,)
7. Name of Company/Organization	THE RAMCO CEMENTS LIMITED
8. Location of Project	Andhra Pradesh
9. TOR Date	29 Jul 2015

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 09/07/2024

(e-signed)  
**Pankaj Verma**  
**Scientist E**  
**IA - (Non-Coal Mining sector)**

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

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F. No. IA- J-11015/443/2014-IA.II(M)  
Government of India  
Ministry of Environment, Forest and Climate Change  
Impact Assessment Division  
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3<sup>rd</sup> Floor, Vayu Wing,  
Indira Paryavaran Bhavan,  
Jor Bagh Road, Aliganj,  
New Delhi-110 003

Dated: 9<sup>th</sup> July, 2024

To,

**M/s The Ramco Cements Limited,**

Auras Corporate Centre, V floor,  
98-A, Dr Radhakrishnan Salai Mylapore,  
Chennai-600004 (TN)

**Sub: Expansion of Ramco Budawada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh - Environmental Clearance (EC) regarding**

Sir,

This has reference to the online proposal no. IA/AP/MIN/25556/2014 dated 10.08.2016 for grant of Environmental Clearance (EC) to the project for expansion of Ramco Budawada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA along with 1200 TPH crusher in the mine lease area of 160.0 ha with by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh.

2. The details of the project as ascertained from the documents submitted by the PP are given as under:

- i. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals. The instant proposal attracts the general conditions as the Interstate Boundary of Andhra Pradesh – Telangana is located at a distance of 1.5km, W from the mine lease area and hence appraised at the Central level.
- ii. The mine lease area is located between Latitude 16°51'17.3" N to 16°52'10.29" N and longitude 80°03'46.9" E to 80°05'31.7" E. The mine lease area falls under the Survey of India Toposheet No 65/D/1 and falls in Seismic zone-III.
- iii. Details of previous Environmental Clearance (EC):
  - a. The PP obtained EC vide letter dated 10.02.2009 for Budhwada Limestone Mine for production capacity of 1.10 MTPA over an area of 160 ha in favour of M/s Madras Cements Ltd.
  - b. Transfer of Environmental Clearance issued on 28.04.2023 from M/s Madras Cement Ltd to M/s The Ramco Cements Limited.
  - c. Amendment of EC dated 10.02.2009 has been obtained on 07.08.2023 w.r.t establishing Railway siding facility with stacker &reclaimer facility within the

 EC- M/s The Ramco Cements Limited

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Mining lease area and to permit transportation of limestone from mine to the cement plant by road as well as by railway line for Budhwada Limestone Mine (ML area 160 Ha and production capacity 1.10 MTPA).

- d. Terms of Reference (ToR) was issued on 29.07.2015 for Budhwada Limestone Mine for enhancement in production capacity of Limestone from 1.1 MTPA to 2.5 MTPA in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited.

iv. Details of previous EAC meetings:

- a. Earlier, the proposal was considered in the EAC meeting held during 19-20th September, 2016 wherein the EAC deferred the proposal for want of requisite information. Then, the PP submitted the information on 14.09.2017 through Parivesh portal.
- b. Further, the proposal was considered in the EAC meeting held during 23-24<sup>th</sup> October, 2017 wherein the EAC was of the view that only 10% of the production has been achieved and proposal for expansion could not be justified by the PP. The Committee also observed that the PP did not develop the green belt around the Mining lease, which is one of the conditions of the earlier EC. PP submitted that they could not develop the green belt and achieve their rated production as they did not get permission from the other nearby mining lease owners to use the area under their control to approach their mining lease and due to this the production is less. PP also submitted that they are in process of resolving the issue pertaining to approach road. Therefore, the Committee decided to defer the proposal and instructed the PP to take steps to fulfil the conditions stipulated in earlier EC and resolve the issues pertaining to approach road. Then, the PP submitted the information on 10.08.2023, 26.10.2023 and 07.11.2023 through Parivesh portal.
- c. The proposal was further considered in the 23<sup>rd</sup> EAC meeting (Non-Coal Mining) held during 5-7<sup>th</sup> December, 2023 wherein the proposal was deferred due to the shortcomings observed by the EAC.

v. Details of Mine Lease in chronological manner:

S.No	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral & (Major/ Minor)	Period of Grant	Granted by	Mine lease area in Ha
1	G.O.Ms.No.291,G.O.Ms.No.59 & G.O.Ms.No.39	30.10.2008, 02.05.2017 & 03.06.2021	Limestone (Major)	20 years and extended upto 50 years as per MMDR amendment Act,2015	Govt. of Andhra Pradesh	160 Ha



S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	Proceeding.No.436/M/2001 dated 17.03.2009	17.03.2009	16.03.2029	Limestone	160 Ha
2	Proceeding No.436/M/2001 dated 01.12.2022	17.03.2009	16.03.2059	Limestone	160 Ha

vi. Land Use/Land Cover of the Mine Lease Area:

Forest land	160 Ha
Total Mining lease area (MLA), ha	160 Ha
Additional information (if any)	Entire lease area falls under Budawada Reserve forest in Jaggayyapet Mandal, N.T.R district , Andhra Pradesh.

vii. Mining plan details:

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	AP/KSN/MP/LST-30/HYDR
	Date	21.04.2023 and 02.01.2024
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	160 Ha
	Validity	2028-29
Mining Parameters	Quantitative Description	
Method of Mining	Mechanized open-cast mining method with conventional deep hole drilling and blasting,	
Drilling/Blasting	Deep hole Drilling and Controlled Blasting	
Geological Reserves	215.00 million tonnes as on 31.01.2023	
Mineable Reserves	134.06 million tonnes as on 31.01.2023	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total excavation -91.40 million tonnes. Limestone – 90.37 million Tonnes IB/SB/waste- 1.03 million tonnes	
Life of mine	53 years @ 2.50 MTPA However the lease period valid upto:16.03.2059.	
Mine Bench Height & Bench Width	Bench Height – 8 m to 9m Bench Width - 25 m (maximum)	
No. of Mine Benches	6 Nos	
Existing Depth, m bgl	16m	
Ultimate Depth of Mining, m bgl	48 m (17 m RL from general ground level i.e., 65 m RL)	
Ground Water Table, m bgl	45-60m bgl	
Details of ground water intersection	Grant of Permission (NOC) for water usage and to carry out mining below groundwater table and discharge of ground water obtained from Panchayat Raj & Rural Development & Administrator vide letter No. PRR05-11028/16/2019-SLNA-GIS-CORD, dated 13.02.2021. Renewal application submitted and order awaited.	
Individual bench slope	75° to 80°	
Overall pit slope	45°	



Details of existing/ proposed Crusher	Impact crusher capacity of 1200 TPH with high efficiency Bag filters with maximum emission rate of 30 mg/Nm <sup>3</sup>
Mineral Beneficiation	Not Applicable
RoM output size	(-)75 mm
Transportation details including capacity of dumper / tipper, mode of transport and distance	The ROM is transported to cement plant through tippers having 30MT capacity by road. Established the railway siding along with crusher, stacker & reclaimer facility. The crushed limestone is being transported through wagons.
Generation of Topsoil/OB & its Management during plan period & conceptual period	<ul style="list-style-type: none"> <li>• A quantity of 14317 cu.m waste will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding during this plan period. Total estimated quantity of interstitial clay is 0.44 million Cu.m to achieve production of 87.50 million tonne up to the Lease period after this modification in the aPProved mining plan period.</li> <li>• However the Total waste of 0.45 million cum quantity (including temporary dump qty. of 0.01 million Cu.m) will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding and will be utilized for plantation in due course of time.</li> </ul>
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	The generation waste will be accommodated in the safety barrier area with a height of 5 m in TRCL Railway siding area and will be utilized for plantation in due course of time.

viii. Water requirement:

Total water requirement	200 KLD	Fresh water	200 KLD
		Treated water	
Source	Initially water requirement meet from other own captive mine.		
Permission for withdrawal/ intersection along with details of grant and its validity	Grant of Permission (NOC) for water usage and to carry out mining below groundwater table and discharge of ground water obtained from Panchayat Raj & Rural Development & Administrator vide letter No. PRR05-11028/16/2019-SLNA-GIS-CORD, dated 13.02.2021. Renewal application submitted and order awaited.		

ix. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	VSP Township	1.5Km NE
Town	Jaggayyapet	4.0Km NE
Highway	NH-65(Hyderabad-Vijayawada)	7.32 Km NE
Interstate Boundary	Andhra Pradesh – Telengana Border	1.8 Km (SW)
Railway Station/Railway line	Bonakalu railway station	27Km-NE
Water Bodies	Krishna River	3.7 km – S
	Paleru River	2.2 km – E



	AntaragangaVagu	5.6 km – NW
Forest	Budawada RF	Lease area lies in Budawada RF
	Balusupadu RF	3.0 km - NW
	Jaggayyapeta Extension RF	5.3 km - E
	Venkatayapalem Extension RF	5.6 km - SE

x. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes	Final Forest clearance under FC Act 1980 for entire lease area of 160.00 ha obtained from Ministry of Environment and Forest (FC division) vide clearance no.8-56 / 2005-FC, dated 22.12.2011 for Mining of Limestone.
National Park	No	-
Wildlife Sanctuary	No	-
Elephant/Tiger Reserve	No	-
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	-
Coastal Regulation Zone (CRZ)	No	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	No	-
Wildlife Conservation Plan	Yes	Wildlife Conservation Plan has been submitted by the PP and is under process for approval.

xi. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	3.50 Ha. Area covered with plantation. However 1000 saplings proposed for gap filling for the year 2024-2025.
Budget for green plant & plantation till the end of life of mine.	5 lakhs per annum.
Budget for nursery	--
Details of existing plantation and its survival rate	Presently about 3.50 Ha of the lease area is developed with plantation. So far, about 9930 saplings have survived in the peripheral safety zone, approach road have been planted within the lease area. And survival rate is 85%
No. of tree cuts in the mine lease area and compensatory afforestation	A quantity of 769.122 Cu.M. Misc. fuel from extraction of tree growth an extent of 160 Ha of forest land, Extracted by forest department themselves. An amount of 2.83 cr. paid towards compensatory afforestation scheme to the forest department vide Demand Draft No.240763, Dated 26.06.2010
Particulars for Green belt/plantation	Area covered (in Ha)



7.5 m barrier & non-mineralized zone	3.5 Ha. for barrier and no non-mineralised area available within ML.
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xii. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December 2014 to February 2015 Fresh data collected: December 2023
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season 2014-15 Fresh data collected: Winter Season 2023
Predominant Wind direction (From)	NNW-N-NNE Direction
Ambient Air Quality (no. of locations) and results	AAQ Parameters at 08 Locations <u>Winter Season 2014-15:</u> PM10 = 30.1 to 66.0 $\mu\text{g}/\text{m}^3$ PM2.5 = 17.1 to 39.7 $\mu\text{g}/\text{m}^3$ SO2 = 9.0 to 14.5 $\mu\text{g}/\text{m}^3$ NO2 = 6.0 to 13.3 $\mu\text{g}/\text{m}^3$ CO: less than 1 PPM <u>December 2023:</u> PM10 = 40.9 to 70.3 $\mu\text{g}/\text{m}^3$ PM2.5 = 19.8 to 32.8 $\mu\text{g}/\text{m}^3$ SO2 = 10.3 to 16.3 $\mu\text{g}/\text{m}^3$ NO2 = 11.3 to 17.2 $\mu\text{g}/\text{m}^3$ CO: less than 1 PPM
Noise level (no. of locations) and results	Noise Levels At 9 Locations <u>Winter Season 2014-15:</u> Day time: ❖ Core zone: 62.6 dB (A); ❖ Buffer Zone: 50.8 to 53.5 dB (A) Night time: ❖ Core zone 57.2 dB (A); ❖ Buffer Zone: 41.3 to 44.1 dB (A) <u>DECEMBER 2023:</u> Day time: ❖ Core zone: 71.2 dB (A); ❖ Buffer Zone: 50.6 to 53.6 dB (A) Night time: ❖ Core zone 64.5 dB (A); ❖ Buffer Zone: 40.8 to 44.2 dB (A)
Water Quality (no. of locations) and results	Ground Water Quality At 08 Locations <u>Winter Season 2014-15:</u> ❖ pH = 7.48 – 8.28 ❖ Total Hardness = 220 - 457 mg/l ❖ Chlorides = 63 - 233 mg/l ❖ Fluoride = 0.36 – 1.1 mg/l



	<p>❖ Heavy Metals (Zinc) = &lt;0.02 – 0.2 mg/l</p> <p><u>December 2023:</u></p> <p>❖ pH = 7.36 – 7.90</p> <p>❖ Total Hardness = 250 - 480mg/l</p> <p>❖ Chlorides = 75 - 250 mg/l</p> <p>❖ Fluoride = 0.5 – 1.14 mg/l</p> <p>❖ Heavy Metals (Zinc) = &lt;0.02 – 0.2 mg/l</p> <p>Surface Water Quality At 07 Locations</p> <p><u>Winter Season 2014-15:</u></p> <p>❖ pH: 7.19 to 8.29;</p> <p>❖ Total Hardness = 242 - 442mg/l</p> <p>❖ Chlorides = 75 - 249 mg/l</p> <p>❖ Fluoride = 0.32 – 1.11 mg/l</p> <p>❖ Heavy Metals (Zinc) = &lt;0.02 – 0.2 mg/l</p> <p><u>December 2023:</u></p> <p>❖ pH = 7.6 – 8.16</p> <p>❖ Total Hardness = 230 - 310mg/l</p> <p>❖ Chlorides = 70 - 113 mg/l</p> <p>❖ Fluoride = 0.72 – 0.95 mg/l</p> <p>❖ Heavy Metals (Zinc) = &lt;0.02 – 0.2 mg/l</p>
Soil Quality (no. of locations) and results	<p>Soil Quality 8 Locations</p> <p>Moderate fertility</p> <p><u>Winter Season 2014-15:</u></p> <ul style="list-style-type: none"> <li>• pH Value of 1:2 aqueous extract Solution - 8.12 – 8.39</li> <li>• E.C, mS/cm of 1:2 aqueous extract Solution – 0.19 – 0.545</li> <li>• Mineralized Nitrogen (Available Nitrogen), kg/ha - 7 – 24</li> <li>• Available Phosphorous as P<sub>2</sub>O<sub>5</sub>, kg/Ha – 16-42</li> <li>• Available Potassium as K<sub>2</sub>O, Kg/Ha – 160-340</li> <li>• Organic Carbon, % - 0.12-0.7</li> </ul> <p><u>December 2023:</u></p> <ul style="list-style-type: none"> <li>• pH Value of 1:2 aqueous extract Solution - 8.06-8.27</li> <li>• E.C, mS/cm of 1:2 aqueous extract Solution – 0.204 – 0.43</li> <li>• Mineralized Nitrogen (Available Nitrogen) , kg/ha - 12 – 32</li> <li>• Available Phosphorous as P<sub>2</sub>O<sub>5</sub>, kg/Ha – 21-74</li> <li>• Available Potassium as K<sub>2</sub>O, Kg/Ha – 316-512</li> <li>• Organic Carbon, % - 0.4-0.64</li> </ul>
Hydro geological study and results	Safe Category
Traffic study (no. of locations) and results	None -The transportation of limestone from the mining lease to the cement plant by railway wagon, for which EC amendment is obtained.



xiii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	23.03.2016 "Indian Express" (English News Paper) and "Sakshi" (Telugu News Paper).
Date of PH	26.04.2016
Venue	Proposed Enhanced Mine lease Area, Ramco Budhwada Limestone Mine, Jaggayyapet Village, Jaggayyapet Mandal, NTR (earlier Krishna) District, Andhra Pradesh.
Chaired by	Sri Ch.Rangayya Chairman District Revenue Officer And Additional District Magistrate, Krishna District, AP.
Main issues raised during PH	<ul style="list-style-type: none"> <li>➤ Preference to be given for local educated villagers. for employment in the industry.</li> <li>➤ 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</li> <li>➤ Management to develop the Green Belt programme in the project area surrounding villages</li> <li>➤ The industry to develop Budawada village on par with Jayanthipuram.</li> <li>➤ Supply of drinking water through RO plants to surrounding villages</li> <li>➤ 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.</li> <li>➤ The Management for the co-operation in development of Jaggayyapeta Hospital and to adopt the hospital and provide necessary facilities.</li> </ul>
Budget proposed for addressing issues raised during PH over 3 years	TRCL has spent amount of Rs. 188.14 Lakhs towards implementation of Public Hearing Commitments for the period 2020 to 2023.  However an additional amount of Rs.80 lakhs has been earmarked for the same in the next two years to come.

xiv. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	CTE obtained vide letter No. 285/PCB/CFE/RO-VJA/HO/2009-69, Dt.08.04.2010. Amendment CTE order No. 285/APPCB/CTE/RO-VJA/HO/2023 dated 06.10.2023.
Consent to Operate	Consent for Operation (Combined CFO) issued by the State Pollution Control Board for production of 1.10 MTPA of Limestone,



	vide order No. APPCB/JA/VJA/488/ HO/CFO/2021, dated 07.11.2022 which is valid up to 31.01.2028. Amendment CTO order No. APPCB-11022/134/2021-TEC-CFO-APPCB dated 24.01.2024.
Certified Compliance Report and Inspection date	Certified EC compliance obtained from MoEF&CC, Regional office, Vijayawada vide file No. SO/VIJ/EPA/EC-A/101/05-86/2023 and 15.06.2023
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Authenticated past production details issued by District Mines and Geology Officer, NTR District, Department of Mines & Geology dated 07.12.2023 been submitted by PP.

xv. Rehabilitation & Resettlement (R&R):

R & R details	PP has submitted that no R&R issues related to the ML area.
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xvi. Court case details:

Court Case, No and its present status	<p>With regards to mineral transportation in a small stretch of land owned by Rashtriyalspat Nigam Limited (RINL), writ petition was filed by RINL and its details are as follows:</p> <p><u>Writ. No. 5066 of 2019, dt.10.04.2019.</u></p> <ul style="list-style-type: none"> <li>RINL filed writ petition on 10.04.2019 against Govt. of Andhra Pradesh and TRCL. The High Court of Andhra Pradesh issued the order on 25.04.2019 for suspension of Memo No. 11031/M.III(2)/2013, Dt. 23.05.2018 and further memo No. 11031/M.III(2)/2013, Dt. 23.01.2019.</li> <li>Hon'ble AP High Court was pleased to dismiss the writ petition filed by RINL on 14.06.2021 after hearing all the parties and also was pleased to vacate the interim stay granted in the matter.</li> </ul> <p><u>RINL Writ Appeal No. 424 of 2021, dt.15.07.2021 against the judgment of writ. No. 5066 of 2019, dt.10.04.2019.</u></p> <ul style="list-style-type: none"> <li>The above appeal was heard on 22.07.2021 and Honbl'e Chief Justice Bench has issued the orders to stop operations on road and maintain the "Status Quo" in this matter till the next date of hearing.</li> <li>Status Quo is maintained in RINL land. Presently an alternative transport route which is of a greater distance is being utilized.</li> </ul>
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xvii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	PP has submitted an affidavit dated 10.02.2024 stating that all the statutory requirements and judgements of the Hon'ble Supreme Court dated 2 <sup>nd</sup> Aug 2017 in WPC 114 of 2014 in the matter of Common Cause vs Union of India and ors shall be complied.
Undertaking by PP in EIA/EMP report	Not applicable as the proposal is for EC

EC- M/s The Ramco Cements Limited

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## xviii. Detail of Additional Detail Sought:

The instant proposal was earlier considered in the 23<sup>rd</sup> EAC meeting(Non-Coal Mining) held during 5-7<sup>th</sup>December, 2023 wherein the committee deferred the proposal due to some requisite information. The PP has submitted their reply on the Parivesh portal vide letter dated 16.01.2024. Further, Ministry raised ADS on 25.01.2024 and reply has been submitted on 01.02.2024. The ADS points and the reply of PP are as follows:

S N o	ADS Point	Reply by PP
ADS dated 25.01.2024		
1	The matter has been examined in the Ministry and it is found that the PP has carried out the revalidation of baseline data only for ambient air quality. Hence, the PP is requested to submit the revalidation of baseline data for noise level, water quality and soil quality with the comparison of both old and new data along with certified test reports.	The baseline data for ambient air quality, noise level, water quality and soil quality is being submitted with the comparison of both old and new data along with certified test reports.
ADS dated 18.12.2023		
1	The PP needs to revise the information and data in the technical presentation as per the current scenario.	The PPT is being updated as per current status
2	The PP 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 December 2023 and is submitted by PP.
3	The PP 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 upto September 2023 has been submitted by PP







		Jaggayyapet & nearby Hospitals	Village			Rs.48.1 lakhs
			Budget Rs Lakh			
	2	Conducting free medical camps in surrounding villages & free medicines	Physical No.			
			Villages	Surrounding	Surrounding	
			Budget Rs Lakh	Rs.12.0 lakh	Rs.12.0 lakh	Rs.39.17 lakh
	3	Conducting eye testing camps & veterinary camps	Physical No.		2veterinary camps	
			Villages	Surrounding	Surrounding	
			Budget Rs 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.			
			Village			
			Budget Rs Lakh			Rs.18.18 lakh
	5	Domestic water supply schemes and pipe networks	Physical No.			
			Village			
			Budget Rs Lakh			Rs.24.45 lakh
	6	Providing saplings to villages & tree guards	Physical No.			
			Village			
			Budget Rs Lakh			Rs.2.75 lakh
	7	Skill	Physical	Nearly	Nearly	



			development programmes under Apprenticeship, Project work, Trainings shall be given to local educated youth	Physical No.	40 students	40 students		
				Villages	Surrounding	Surrounding		
				Budget Rs Lakh	Rs. 25 lakh	Rs. 25 lakh	Rs. 125.3 lakh	
	8		Admission to local students in company school	Physical No.	680	680		
				Villages	Surrounding	Surrounding		
				Budget Rs 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 Reddy naik Thandato Jagayyapet	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
			Total Amount Spent So far		188.14	-		
			Amount Proposed in next two years			80		
8	The PP needs to submit the breakup of the project cost of Rs 4.0 Cr.		PP has submitted the breakup of the project cost of Rs 4.0 Cr (Rs. 400 lakh) and is mentioned below: Ramco Budawada Limestone Mine (RF): Capital cost from 1.10 to 2.50 MTPA					
	Type of Machinery	Capacity of each unit	Existing Machinery	Additional requirement from 1.1 to 2.5 MTPA	Total requirement of Machinery for 2.5 MTPA	Cost /unit in lakh	Total cost in Lakh Rs. (from 1.1	



						Rs.	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 tanker	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
9	The PP needs to submit the latest complete approved mining plan in Parivesh portal.	PP has submitted the copy of approved Mine plan vide dated 21.04.2023 in respect of Budawada Limestone Mine (Reserved Forest) of M/s the Ramco Cements Ltd. over an extent of 160.00 ha. in of Budawada R.F, Jaggayyapeta Mandal, Krishna District, Andhra Pradesh State.					
10	The PP needs to submit the closure report issued by the Sub-Office for the partially complied conditions.	PP has submitted the letter dated 12.01.2024 of sub-regional office of the Ministry at Vijaywada wherein PP has been asked to expedite the submission of Wildlife Conservation Plan to Govt. of AP and Ministry. To include SPM in the fugitive emission monitoring parameters. Thus closure report is yet to be obtained.					
11	The PP needs to submit the copy of NoC	PP has submitted the NoC for abstraction of Groundwater vide letter dated 13.11.2021 and valid for three years from the date of					



obtained for abstraction of Groundwater.	issuance.
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xix. Details of the Environmental Management Plan (EMP):

Activities	Capital cost (Crores)	Recurring cost(Lakhs/annum)
Air, Water and Noise pollution Control	0.2275	2.60
Occupational Health	0.005	0.30
Env. Monitoring and Management	0	1.50
Reclamation Borrow/Mined area and Greenbelt	0	0.50
Total	0.2325	4.90

xx. Details of project cost and employment:

Particulars	(Rs. in Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of public hearing)	2.9139
Project Cost	4.0
Employment (No.s)	55 (total, inclusive of 17 Nos. with this expansion project)

3. The proposal was considered by the EAC in its meeting held on 19-20th September, 2016, 23-24<sup>th</sup> October, 2017, 5-7<sup>th</sup> December, 2023 and 20-21st February, 2024. EAC during the deliberations asked the PP/EIA Consultant to present the KML file for showing the features of the Mine lease area including the features of their vicinity. The PP presented the KML file and showed the boundary and adjacent area of the mine lease. Thereafter, PP presented the reply of the additional details sought by the EAC in its meeting held during 5-7<sup>th</sup> December, 2023. The PP has presented the revalidated baseline data for the month of December, 2023 and found the important air quality elements such PM10, PM2.5, SO2, NO2 and CO are within the permissible limit as per the NAAQ standards for Industrial, Residential, Rural and Other areas. The comparison of old and new data too were showcased by the PP with regard to the prevalent air quality.

PP submitted the authenticated past production capacity from the year 2009-10 to September 2023-24 and the production capacity in the year 2023-24 is 7,55,632 MT (till September 2023). As per the decision support system for National Tiger Conservation Authority (NTCA) the Mine lease area is not the part of any tiger corridors/reserves. The nearest Tiger reserves / Corridor is at distance of 68.69 Km - WSW direction i.e. Amrabad Tiger Sanctuary.

The PP has obtained the revised and updated authenticated list of Flora and Fauna on 21.12.2023 as per Wild Life (Protection) Act 1972 and its subsequent amendment in 2022. The Wildlife conservation plan was submitted to Chief Wildlife Warden, Govt. of A.P, Forest Department vide acknowledgement dated 29.12.2023. PP has also submitted the layout of crusher and the preventive measures for noise control and dust suppression.

PP has addressed the concerns raised during public hearing over a period of 3 years and submitted their implementation status after spending Rs. 188.14 lakh for the period of 2020 to 2023

EC- M/s The Ramco Cements Limited

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and an additional amount of Rs. 80 lakhs has been earmarked for the next two years. The beakup of project cost of Rs. 4.0 Cr has been submitted by the PP.

Further PP stated that the mining operations are being carried out as per MOEFCC, IBM and DGMS norms implementing all pollution control measures to mitigate dust emissions during mining like drilling operations by wet drilling technique. Mobile water sprinklers are used on haul roads to control fugitive dust emissions.

Committee also discussed the court case and its current status along with the issue of mineral transportation in a small stretch of land owned by M/s Rashtriyaspat Nigam Limited (RINL). PP informed that approach road issue is pending at court. A writ petition was filed by RINL Writ. No. 5066 of 2019, dt.10.04.2019 against Govt. of Andhra Pradesh and TRCL. The High Court of Andhra Pradesh issued the order on 25.04.2019 for suspension of Memo No. 11031/M.III(2)/2013, Dt. 23.05.2018 and further memo No. 11031/M.III(2)/2013, Dt. 23.01.2019. Hon'ble AP High Court was pleased to dismiss the writ petition filed by RINL on 14.06.2021 after hearing all the parties and also was pleased to vacate the interim stay granted in the matter. RINL went for appeal against the same judgment in Writ No. 424 of 2021, dt.15.07.2021. The appeal was heard on 22.07.2021 and Honbl'e Chief Justice Bench issued the orders to stop operations on road and maintain the "Status Quo" in this matter till the next date of hearing. Presently an alternative transport route which is of a greater distance is being utilized.

Based on the above, EAC **recommended** the proposal for grant of Environmental Clearance for RamcoBudhwada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA along with 1200 TPH crusher in the mine lease area of 160.0 ha by M/s The Ramco Cements Limited located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh under provisions of EIA Notification, 2006 and its amendments therein, subject to the specific conditions in addition to the standard EC conditions applicable for non-coal mining projects.

4. The matter was examined in the Ministry in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC in its meeting held during 20-21 February, 2024 hereby accords the Environmental Clearance (EC) to M/s The Ramco Cements Limited for expansion of Ramco Budawada Limestone Mine for enhancement in production capacity from 1.1 to 2.5 MTPA along with 1200 TPH crusher in the mine lease area of 160.0 ha located at Village Budawada, Taluk Jaggayyapeta, District NTR (Earlier Krishna), Andhra Pradesh subject to compliance of the terms & conditions and the environmental safeguards mentioned below: -

**A. SPECIFIC CONDITIONS:**

- i. PP shall obtain CTE/CTO from State Pollution Control Board for 2.5 MTPA production capacities for Limestone mine.
- ii. The Project Proponent needs to ensure that the machinery requirement/capacity shall match with the proposed expansion production capacity so as to avoid the sudden increase in pollution load.



- iii. PP shall ensure the compliance of expenditure to be incurred for wildlife conservation plan submitted to the State Govt. and the details expenditure shall be submitted with six monthly EC compliance report to Ministry's Sub-Regional Office.
- iv. The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.
- v. PP shall dissipate the noise from the mining operations within the mining lease area. PP shall provide ear muffs to all mine workers to avoid health implications and PP shall limit the exposure time of workers to excessive noise.
- vi. The Project Proponent needs to carry out ground vibration study through reputed institute to determine maximum charge per hole and charge to be blasted per delay so that ground vibrations are minimized and kept within permissible safe limits fixed by DGMS.
- vii. PP shall transport the limestone from the Mine lease to cement plant by the dedicated railway wagon.
- viii. The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with CPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
- ix. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office
- x. The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Regional Office.
- xi. The Project Proponent needs to take adequate control measures to arrest the fugitive dust arising from the crusher at the source itself. The dense plantation shall be carried out in the vicinity of the crusher. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at crushers and other areas prone to air pollution.
- xii. PP shall install 4 Nos. of RO plants for uninterrupted supply of drinking water to the nearby villages DP Thanda, Jayanthipuram, Ravirala&Nawabpet and submit a report with photographs to Sub-Regional Office, MoEF&CC
- xiii. PP shall submit the status of Oxygen plant constructed at Jaggayyapet Community Health Centre as well as the Ambulance facility that has been extended for the near villagers to the Sub-Regional Office, MoEF&CC.
- xiv. The Project Proponent needs to make provision for permanent water sprinklers instead of water tankers. About, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust



suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission. The Project Proponent needs to put effort to reduce water consumption by 30%.

- xv. PP shall submit the log-book detail of patient & doctors visited to established medical camps in nearby villages and amount of medicines supply to Sub-Regional Office, MoEF&CC.
- xvi. The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment as committed before the EAC.
- xvii. PP shall implement the activities-wise proposed budget for Public Hearing Budget of Rs. 80 Lakh as proposed before the EAC in time bound manner. The details of annual expenditure incurred shall be part of report to be submitted to Sub-Regional Office, MoEF&CC. PP needs to include the audited figures against the expenditure and activities to be monitored by through dedicated monitoring mechanism. The maintenance of all activities shall be covered through recurring cost of Public Hearing, and continued as a part of CSR budget.
- xviii. PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to Sub-Regional Office within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System."
- xix. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- xx. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
- xxi. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxii. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the



- benefit of the local people and also the monitor the health impacts due to mining activity.
- xxiii. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office.
- xxiv. The Project Proponent shall periodically maintain the garland drains, retaining wall and other water management structures in the mine lease area.

**B. STANDARD CONDITIONS:**

**I. Statutory compliance**

- 1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations.
- 3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- 5) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 6) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 7) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- 8) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.



## **II. Air quality monitoring and preservation**

9) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

10) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

## **III. Water quality monitoring and preservation**

11) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

12) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

13) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority



and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

14) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

15) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

16) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

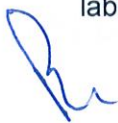
17) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

#### **IV. Noise and vibration monitoring and prevention**

18) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

19) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

20) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.





## V. Mining plan

21) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working ( method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).

22) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

## VI. Land reclamation

23) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

24) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

25) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

26) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.



## VII. Transportation

27) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].

28) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

## VIII. Green Belt

29) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

30) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

31) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.



## **IX. Public hearing and human health issues**

32) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

## **X. Corporate Environment Responsibility (CER)**

33) The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

## **XI. Miscellaneous**

34) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

35) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

36) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.

37) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.

38) The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.

39) In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.



40) The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

41) Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

5. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.

6. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

7. This issues with the approval of Competent Authority.

Yours faithfully,

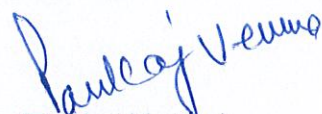
(Pankaj Verma)  
Scientist 'E'

**Copy to:**

- i. **The Secretary**, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.
- ii. **The Secretary**, Department of Environment, Government of Andhra Pradesh, 4<sup>th</sup> Block, 1<sup>st</sup> Floor, Room No:268, Andhra Pradesh Secretariat Office, Velagapudi.
- iii. **The Secretary**, Department of Forests, Government of Andhra Pradesh, Aranya Bhavan, K.M. Munshi Road, Nagarampalem, Guntur-522004, Andhra Pradesh.
- iv. **The Secretary**, Department of Mines and Geology, Government of Andhra Pradesh, Sri Anjaneya Towers, D.No. 7-104, B-Block, 5<sup>th</sup> & 6<sup>th</sup> Floors, Vijayawada, Ibrahimpatnam, Andhra Pradesh 521456.
- v. **The Secretary**, Department of Industries and Commerce (M-III), Government of Andhra Pradesh, Commissionerate of Industries, First Floor, Government Regional Printing Press Buildings, Mutyalampadu, Vijayawada-520011.
- vi. **The Inspector General of Forests**, Regional Office (RO), Vijayawada, Ministry of Environment, Forest and Climate Change, Green House Complex, Gopalreddy road, Vijayawada-520010, Andhra Pradesh.
- vii. **The Member Secretary**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.



- viii. **The Member Secretary**, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 010.
- ix. **The Member Secretary**, Central Ground Water Authority, A 2, W-3 Curzon Road Barracks, K.G Marg, New Delhi-110011.
- x. **The Chief Wildlife Warden**, Govt. of Andhra Pradesh, Aranya Bhawan, K.M. Munshi Road, Nagarampalem, Guntur-522004, Andhra Pradesh.
- xi. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- xii. **The District Collector, NTR (Earlier Krishna)**, Government of Andhra Pradesh.
- xiii. Guard File.
- xiv. **PARIVESH Portal**.

  
(Pankaj Verma)  
Scientist 'E'