

THE RAMCO CEMENTS LIMITED

ISO 9001 ISO 14001 ISO 45001 ISO 50001
Certified Company

Kumarasamy Raja Nagar – 521457
Jaggayyapet Mandal, Krishna District,
Andhra Pradesh, India
Phone: 08654 224400-04
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E-mail: mcljpm@ramcocements.co.in

RCL/MoEF&CC/RBLM-239/70

Dt. 30.05.2022

Ministry of Environment, Forests and Climate Change,
Integrated Regional Office,
Green House Complex,
Gopala Reddy Road,
VIJAYAWADA – 520 010.

Dear Sir,

Sub: Submission of Half-Yearly Compliance Report for Environmental Clearances for Ramco Budawada Limestone Mine (RF) of The Ramco Cements Limited for the period from October 2021 to March 2022 – Reg.
Ref: EC Lr. No. J-11015/150/ 2008-IA.II(M) dated 10.12.2009.

We are herewith submitting the Half-Yearly Compliance for Environmental Clearance for the period from October 2021 to March 2022 along with relevant enclosures for Ramco Budawada Limestone Mine (RF), Jaggayyapet Mandal, Krishna District, Andhra Pradesh.


Name, designation and contact details of person in-charge of environmental division are:

N. Ravi Shankar
Sr. President (Manufacturing)
Phone No. 08654 – 224400,
Fax No. 08654 – 222352,
e-mail: mcljpm@ramcocements.co.in

This is for your kind information and perusal please.

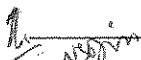
Thanking you,

Yours faithfully,
For The Ramco Cements Limited,
(Formerly known as Madras Cements Ltd.,)


(N. RAVI SHANKAR)
Sr. President (Manufacturing)

Encl.: a.a

Cc to: Central Pollution Control Board, Nisarga Bhavan, A-Block, 1st & 2nd Floors,
Thimmaiah Road, 7th D-Main, Shivanagar, Bengaluru – 560 079.



HALF-YEARLY COMPLIANCE REPORT

| | |
|---|--|
| Environmental Clearance Letter/s No. and Date | J-11015/150/2008-IA.II (M) and dated 10.12.2009 |
| Name of the Project | The Ramco Cements Limited (Formerly Madras Cements Ltd.), Ramco Budawada Limestone Mine (RF) – 1.1 Million TPA Capacity Of Limestone |
| Period of Compliance Report | October 2021 to March 2022 |

A. Specific Conditions:

| S.No. | Condition | Compliance Status |
|-------|--|--|
| i. | Environmental Clearance is subject to obtaining Forest Clearance under Forests (Conservation) Act, 1980 from the Competent Authority before start of work at mine. | Being complied. <ul style="list-style-type: none"> • Forest Clearance is obtained from The Ministry of Environment & Forests (FC Division), Government of India, vide letter No. 8-56/2005FC date 22.12.2011. • The mine is opened on 01.02.2014 after Tree Growth is extracted. • The production started as per the requirement of the cement plant. • The Mine is not in full pledged operations for production as planned due to lack of proper approach road to transport limestone from mines to plant. |
| ii. | 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. | Being complied. <ul style="list-style-type: none"> • As per the authenticated list of Flora and Fauna from The DFO, Krishna Division, Vijayawada vide Letter No. Rc.No.712/95-V6 dated 29.08.2008, no wild life and schedule - I species are present in the area and no wild life is observed, after opening the mine in the subject area. • Hence, Wild life conservation plan is not prepared. |
| iii. | Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quality and quantity is observed, mining shall be immediately stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented. | Being complied. <ul style="list-style-type: none"> • Detailed hydro-geological study is carried out & report submitted to the Ministry along with EIA report submitted for the project. • Presently, the mine workings are not touched the ground water table. • Groundwater level is being monitored regularly (at 3 locations) and readings are being recorded. • The ground water data for the period October 2021 to March |

| S.No. | Condition | Compliance Status |
|-------|--|--|
| | | 2022 is being submitted to the CGWB, copy is enclosed as Annexure - I. |
| iv. | A 50 m barrier of no mining zone on the side(s) of the nallahs / streams flowing in or adjacent the lease (if any) shall be demarcated and the barrier shall be thickly vegetated with native species of trees and shrubs. | Not applicable, as no nallah or stream is flowing in or adjacent to the mining lease. |
| v. | The company shall ensure that no silt originating due to mining activity is transported in the surface water course (if any) flowing in the area. | Noted. No silt will be generated due to mining activity as there is no beneficiation of the limestone is taking place and there is no surface water course flowing in the mining lease area also. |
| vi. | Shelter belt i.e., Wind Break consisting of adequate tiers of plantations around lease facing the human habitation, school / agricultural fields etc., (if any in the vicinity) shall be raised. | Noted. <ul style="list-style-type: none"> • The entire mine lease area is forest land. • No human habitation / school / agricultural fields exist within the vicinity of subject area. |
| vii. | Occupational Health Cell shall be created at the company under the charge of an officer of adequate seniority who is a qualified person in occupational health. | Being complied. <ul style="list-style-type: none"> • A full-fledged Occupational Health Centre with a qualified Occupational Health Specialist with supporting staff is established with the following facilities: <ul style="list-style-type: none"> ○ X-ray ○ ECG ○ Spirometry (lung function test) ○ Audiometry ○ Semi-auto analyser to carryout bio-chemical tests ○ Clinical lab for micro-biological tests (including sputum test) ○ Checking colour blindness ○ Dental chair ○ Ambulance • Occupational health surveillance programme is taken up periodically and records are being maintained. |
| viii. | Personnel exposure monitoring for dust shall be carried out for the workers. | Being complied. Personnel dust sampling is being done by MoEF&CC approved external environmental monitoring agency. |
| ix. | Land-use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agricultural land / | Noted. <ul style="list-style-type: none"> • Detailed land use pattern of the nearby villages is made in EIA/EMP. • The Mine is not in full pledged operations for production as planned due to lack of proper |

| S.No. | Condition | Compliance Status |
|-------|---|--|
| | common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Ministry within six months. | <p>approach road to transport limestone from mines to Cement Plant.</p> <ul style="list-style-type: none"> Hence damage to the agriculture land does not arise. Action plan will be submitted once full-fledged production starts from the mine. |
| x. | Need based assessment for the nearby villages shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc., can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs. | <p>Being complied.</p> <ul style="list-style-type: none"> Company is organizing various socio-economic activities for the surrounding villages. All the CSR activities for the nearby villages are being carried out as per the need basis of the local people (requirements collected from them), subjected to the budget availability. CSR activities are being carried out for upliftment of local areas and account is being maintained. These include village-wise, sector-wise (health, skill development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc.). Children from the surrounding villages are studying in the school located in the cement plant colony. Apprentice training with stipend is being given for local people who have completed Industrial Training Institute (ITI) certificate, regularly. |
| xi. | 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. | <p>Being complied.</p> <ul style="list-style-type: none"> Fugitive dust generated during mining activities is being controlled by water spraying and implementing wet drilling. There are no human habitations including schools and other public amenities located nearer to the mine. |
| xii. | Cumulative impacts of the proposed mine and other mines including mine of M/s Jaypee Cement on the Ambient Air shall be assessed and data submitted to the Ministry within six months. | <p>Complied.</p> <p>Report on cumulative impacts along with neighboring M/s Jaypee Balaji Cements is submitted vide our Lr. No. TRCL/MoEF/3323/2013 dated 11.11.2013 to the Ministry.</p> |
| xiii. | Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted | <p>Being complied.</p> <ul style="list-style-type: none"> 48 Nos. of rain water harvesting pits are made at colony & 4 Nos. of rain water harvesting pits are |

| S.No. | Condition | Compliance Status |
|-------|---|---|
| | to the Ministry within six months. | <p>made at associated cement plant for roof top collection to recharge ground water table, as on March 2022.</p> <ul style="list-style-type: none"> • Rain water harvesting pits will be constructed to recharge the ground water after commencement of full-fledged production from the mine. • The status of the same will be submitted to the Ministry accordingly. |
| xiv. | Monitoring of ground and surface water quality shall be regularly conducted and records maintained and data submitted to the Ministry regularly. Further, monitoring points shall be located between the mine and drainage in the direction of flow of ground water and records maintained. Monitoring for Arsenic in ground water shall be undertaken. | <p>Being complied.</p> <ul style="list-style-type: none"> • Ground water quality is being monitored in buffer zone and records are being maintained. Compiled data on analysis reports of the same for the period from October 2021 to March 2022 is enclosed as Annexure - II. • It is observed from the ground water analysis reports that Arsenic concentration is Below Detectable Limit (<0.01 mg/L). |
| xv. | Measures for prevention and control of soil erosion and management of slit shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls. | <p>Noted.</p> <ul style="list-style-type: none"> • There is no top soil generation from this mining lease area. • As on date there are no dumps. • Dumps generated, if any, will be protected accordingly. |
| xvi. | Provision shall be made for the housing the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | <p>Noted.</p> <ul style="list-style-type: none"> • As the project is completed and there is no requirement of housing of the labour. • During the project time, the labourers were mobilized from the nearby villages. • Once the regular production starts, the housing will be provided in the colony located near cement plant, for the regular employees. |
| xvii. | Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal / perennial nallahs (if any) flowing through the ML area and | <p>Noted.</p> <ul style="list-style-type: none"> • As on date there are no dumps. • Trenches / garland drains will be constructed at foot of dumps, accordingly. • Check dam will be constructed at the end of the garland drain. • There are no seasonal or perennial nallahs / streams flowing in the |



| S.No. | Condition | Compliance Status |
|--------|---|---|
| | utilization later for reclamation and shall not be stacked along with over burden. | mining lease area. <ul style="list-style-type: none"> The same material will be utilized for formation of internal roads and for backfilling on I & II benches to a height of 1 - 1.5 m for plantation purpose at the end of mining. |
| xxi. | Over burden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and overall slope of the dump shall not exceed 28°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliances status shall be submitted to the Ministry of Environment & Forests on six monthly basis. | Noted. <ul style="list-style-type: none"> At present, there is no OB generated in the area as the regular production from the mine is yet to start. Overburden (generated if any) will be stacked in the SW corner of mining lease area and status of the same will be submitted to the ministry on six monthly basis. |
| xxii. | Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines. | Noted. Ultimate pit slope of the Mining bench will be maintained at 45° as per approved mining scheme. |
| xxiii. | The waste water from the mine shall be treated to conform to the prescribe standards before discharging into the natural stream. The discharged water from the Tailing Dam (if any) shall be regularly monitored and report submitted to the Ministry of Environment & Forests, Central Pollution Control Board and the State Pollution Control Board. | Noted. <ul style="list-style-type: none"> There is no waste water generation from this mine. There is no generation of tailings from the mining of limestone, hence no proposal for tailing dam. |
| xxiv. | Action plan with respect to suggestions / improvements and recommendations made during public consultation / hearing shall be submitted to the Ministry and the State Govt. within six months. | Being complied. Action plan with respect to suggestions / improvements and recommendations made during public consultation / hearing is submitted along with earlier half yearly compliance reports. |
| xxv. | A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval. | Noted. The final mine closure plan will be submitted as suggested. |
| xxvi. | Vehicular emissions shall be kept | Being complied. |

| S.No. | Condition | Compliance Status |
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| | under control and regularly monitored. Vehicles used for transportation of ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Transportation of ore shall be done only during day time. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed. | <ul style="list-style-type: none"> Vehicles having valid permission as per Central Motor Vehicle Rules, 1989 are being used for transportation of material. To avoid fine particles escape while transporting, the following measures will be adopted: <ul style="list-style-type: none"> Moderately loading of tippers. Body height of the tippers will be raised by 1 foot. A separate road on company's own land is proposed to make for transportation of limestone to crusher. |
| xxvii. | The Environmental Clearance is subject to the condition, if any, stipulated by the IBM on the mining scheme submitted by the project proponent for its approval. | <p>Noted for compliance.</p> <ul style="list-style-type: none"> The conditions stipulated by IBM on the Modifications in the approved Mining plan will be followed, after commencement of full-fledged production from the mine. The present Modifications in the Mining plan approved by IBM is valid from 2019-2020 to 2023-2024. |
| xxviii. | Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits. | Not applicable as the mining lease consists of only one limestone mineral bearing deposit. |

B. General Conditions:

| S.No. | Condition | Compliance Status |
|-------|--|--|
| i. | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. | <p>Being complied.</p> <ul style="list-style-type: none"> There is no change in Technology and scope of working. Same Technology and scope of working mentioned in EIA Report is being followed. |
| ii. | No change in the calendar plan including excavation, quantum of mineral and waste shall be made. | <p>Being complied.</p> <ul style="list-style-type: none"> There is no change in the calendar plan, excavation, quantum of mineral and waste. A quantity of 0.323 million tonne limestone extracted in the financial year 2021-2022 as against 1.10 million TPA The production was less due to less market demand and also due to lack of proper approach road to transport limestone from mine to the cement plant. |
| iii. | Fugitive dust emissions from all the | Being complied. |

| S.No. | Condition | Compliance Status |
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| | sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. | Fugitive dust generated during mining activities is controlled at the source by water spraying and wet drilling. |
| iv. | Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, PM ₁₀ / PM _{2.5} , SO ₂ , NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical feature and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. | Being complied. 4 and 9 Nos. of ambient air quality monitoring stations are established in core and buffer zones respectively based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the SPCB and regular (fortnightly) manual monitoring by MoEF&CC approved external environmental monitoring agency (M/s Universal Enviro Associates, Hyderabad) for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and CO monitoring. |
| v. | Data on ambient air quality (RSPM, PM ₁₀ / PM _{2.5} , SO ₂ , NO _x) should be made regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months. The monitored data of criteria pollutants mentioned above shall be regularly uploaded on the company's website and also displayed at project site. | Being complied. <ul style="list-style-type: none"> • Data of the Ambient Air Quality is being submitted to the Regional Office, MoEF&CC, Chennai and the SPCB regularly once in six months. • Compiled data for the period October 2021 to March 2022 is enclosed vide Annexure – III. • The data is displayed at project site. • The half-yearly compliance reports are being uploaded on the company's website. |
| vi. | Measure shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs. | Being complied. <ul style="list-style-type: none"> • Vehicles are being maintained properly for control of noise. • Ear plugs / muffs are provided to respective HEMM operators. • Various other precautions are also being taken to control the noise. • Compiled data of Noise levels measured in the financial year 2021-2022 is enclosed as Annexure – IV. |
| vii. | Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of | Noted. There is no generation of waste water from this mine as there is no workshop is being maintained separately for this mine at site. |

| S.No. | Condition | Compliance Status |
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| viii. | workshop effluents. Personnel working in dusting areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects. | Being complied. <ul style="list-style-type: none"> • Personal Protective Equipment are being provided and adequate training and information on safety and health aspects are being provided as part Mines Vocational Training. • All areas where dust is being generated is being suppressed at source by water sprinkling, wet drilling etc. |
| ix. | Provision shall be made for the housing the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | Noted. <ul style="list-style-type: none"> • As the project is completed and there is no requirement of housing of the labour. • During the project time, the labourers were mobilized from the nearby villages. • Once the regular production starts, the housing will be provided in the colony located near cement plant, for the regular employees. |
| x. | A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. | Being complied. <ul style="list-style-type: none"> • Environment management cell is established with qualified personnel to look after the environment management related activities and is reporting to Head of the Unit of the company. • The organization chart is enclosed as Annexure - V. |
| xi. & xiii. | The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the projects by the concerned authorities and the date of start of land development work. | Noted. Date of financial closure for this project is not required as total funding for this project is from own funds. |
| xii. | The funds earmarked for environment protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore. | Being complied. <ul style="list-style-type: none"> • The funds earmarked for environment protection are not diverted for other purposes. • The details of environmental protection expenditure for the financial year 2021-2022 and funds allotted for the financial year 2022-2023 are enclosed as Annexure - VI. |
| xiv. | The Regional Office of the Ministry located at Bangalore shall monitor compliances of the stipulated condition. The project authorities | Being complied. <ul style="list-style-type: none"> • The copy of this half-yearly compliance report is mailed to ecompliance-ap@gov.in, vide |

| S.No. | Condition | Compliance Status |
|--------|--|---|
| | shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports. | <p>Notice from MoEF&CC, Chennai dated 13.08.2019.</p> <ul style="list-style-type: none"> • The same is also uploaded in PARIVESH portal. • Necessary co-operation along with relevant data is being provided. |
| xv. | The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment & Forests, its Regional office, Bangalore, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status compliances of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment Forests, Bangalore. | <p>Being complied.</p> <ul style="list-style-type: none"> • The copy of this half-yearly compliance report is mailed to ecompliance-ap@gov.in, vide Notice from MoEF&CC, Chennai dated 13.08.2019. • The same is also uploaded in PARIVESH portal. • Soft copy of the compliance reports are being uploaded in the company's website. • Half-yearly compliance reports for CFO order are submitted to APPCB regularly. • Half-yearly compliance reports for EC orders are also uploaded in our company's website regularly. |
| xvi. | The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one which shall be in the vernacular language of the locality, / office of Municipal Corporation / Gram Panchayat concerned on the company's website within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . | <p>Complied.</p> <ul style="list-style-type: none"> • Advertisement made on two local newspapers viz., Saakshi (Telugu daily) and Deccan Chronicle (English daily) on 12.12.2009 regarding the same and a copy of the same is forwarded to RO, Bangalore. • The clearance letter is uploaded to the company's website. |
| xvii. | A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal. The clearance letter shall be also put on the website of the company. | <p>Being complied.</p> <p>The clearance letter is uploaded to the company's website.</p> |
| xviii. | State Pollution Control Board shall display a copy of the clearance letter at the Regional office, District Industries Centre and Collector's | Noted. |

| S.No. | Condition | Compliance Status |
|-------|--|---|
| | Office / Tehsildar's Office for 30 days. | |
| xix. | The Environmental Statement for each financial year ending 31 st March in Form - V as is mandated shall be submitted to the State Pollution Control Board as prescribed under the Environment (Protection) Rules,1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. The same shall also be sent to the Regional Office of Ministry by e-mail. | <p>Being complied.</p> <ul style="list-style-type: none"> • Environmental statement for each financial year ending 31st March in Form-V is being submitted to the State Pollution Control Board regularly. • The Environment Statement in Form V for the year 2020-2021 is submitted vide our Lr. No. RCL/PCB-Form-V/238/171 dated 24.09.2021 and is uploaded on the website of the company. • The Environment Statement in Form V for the financial year 2021-2022 will be submitted within stipulated time. • The same is sent to Regional Office of Ministry through email. |


(Signature)



THE RAMCO CEMENTS LIMITED

ISO 9001 ISO 14001 ISO 45001 ISO 50001
Certified Company

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RCL/CGWB/RBLM-239/75

Dt. 30.05.2022

Central Ground Water Board,
3-6-291, GSI Post, Bandlaguda,
Tirumala Residency Colony,
R.Krishnaiah Nagar,
Hyderabad-500 068.

Dear Sir,

Sub: Submission of Water Level Data for Environmental Clearance for Ramco Budawada Limestone Mine (RF) for the period from October 2021 to March 2022 – reg.

Ref: EC Lr. No. J-11015/150/ 2008-IA.II(M) dated 10.12.2009.


This has reference to the above cited Environmental Clearance letter issued by Ministry of Environment & Forests, New Delhi for Ramco Budawada Limestone Mine (RF).

We herewith enclose the Water Level Data measured by Piezometers as part of Half-Yearly Compliance for Environmental Clearance for this Mining Lease located at Jaggayyapet Mandal, Krishna District, Andhra Pradesh for the period from October 2021 to March 2022.

This is for your kind information and perusal please.

Thanking you,

Yours faithfully,
for The Ramco Cements Limited,
(Formerly known as Madras Cements Ltd.)


(N.RAVI SHANKAR)
Sr. President (Manufacturing)

Encl.: a.a

THE RAMCO CEMENTS LIMITED
RAMCO BUDAWADA LIMESTONE MINE (RF)
WATER LEVEL DATA

1. PIEZOMETER DETAILS: Bore Well

Location: Budawada, North Side of Lease
 RL - (+)51.00m
 Latitude - N 16° 51' 48.0" Longitude - E 080° 04' 34.7"
 Depth of well - 45.0 m

| S. No. | Date of Monitoring | Water Level (m), bgl |
|--------|--------------------|----------------------|
| 1 | 16.10.2021 | 7.79 |
| 2 | 31.10.2021 | 11.01 |
| 3 | 16.11.2021 | 13.85 |
| 4 | 30.11.2021 | 16.71 |
| 5 | 16.12.2021 | 18.90 |
| 6 | 31.12.2021 | 20.01 |
| 7 | 16.01.2022 | 21.04 |
| 8 | 31.01.2022 | 21.26 |
| 9 | 16.02.2022 | 22.73 |
| 10 | 28.02.2022 | 23.15 |
| 11 | 16.03.2022 | 23.59 |
| 12 | 31.03.2022 | 24.14 |

3. PIEZOMETER DETAILS: New Bore Well

Location: Budawada, West Side of Lease
 RL - (+)51.00m
 Latitude - N 16° 51' 30.2" Longitude - E 080° 03' 47.7"
 Depth of well - 45.0 m

| S. No. | Date of Monitoring | Water Level (m), bgl |
|--------|--------------------|----------------------|
| 1 | 16.10.2021 | 6.74 |
| 2 | 31.10.2021 | 8.24 |
| 3 | 16.11.2021 | 11.37 |
| 4 | 30.11.2021 | 13.66 |
| 5 | 16.12.2021 | 14.78 |
| 6 | 31.12.2021 | 16.01 |
| 7 | 16.01.2022 | 18.87 |
| 8 | 31.01.2022 | 18.99 |
| 9 | 16.02.2022 | 19.71 |
| 10 | 28.02.2022 | 21.25 |
| 11 | 16.03.2022 | 22.45 |
| 12 | 31.03.2022 | 23.26 |

2. PIEZOMETER DETAILS: Bore Well

Location: Budawada, South West Side of Lease
 RL - (+)51.00m
 Latitude - N16° 51' 17.7" Longitude - E80° 04' 01.6"
 Depth of well - 45.0 m

| S. No. | Date of Monitoring | Water Level (m), bgl |
|--------|--------------------|----------------------|
| 1 | 16.10.2021 | 0.05 |
| 2 | 31.10.2021 | 2.35 |
| 3 | 16.11.2021 | 4.24 |
| 4 | 30.11.2021 | 5.91 |
| 5 | 16.12.2021 | 6.89 |
| 6 | 31.12.2021 | 9.12 |
| 7 | 16.01.2022 | 11.89 |
| 8 | 31.01.2022 | 11.92 |
| 9 | 16.02.2022 | 12.15 |
| 10 | 28.02.2022 | 12.68 |
| 11 | 16.03.2022 | 13.74 |
| 12 | 31.03.2022 | 14.53 |

THE RAMCO CEMENTS LIMITED, KSR NAGAR
RAMCO BUDAWADA LIMESTONE MINE (RF)
AMBIENT AIR QUALITY MONITORING DATA - CORE ZONE
PERIOD - OCTOBER -2021 to MARCH-2022

| Location | Parameter | Month | | | | | | | | | | | | Limit |
|-------------------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-------|
| | | October-2021 | | November-2021 | | December-2021 | | January-2022 | | February-2022 | | March-2022 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Near Borewell No.1 | PM 10 | 60.2 | 58.3 | 51.3 | 58.3 | 48.3 | 56.9 | 59.6 | 52.3 | 55.1 | 62.3 | 58.6 | 63.5 | 100 |
| | PM 2.5 | 24.4 | 23.5 | 20.8 | 23.5 | 19.6 | 22.9 | 24.0 | 21.2 | 22.4 | 25.1 | 23.8 | 25.6 | 60 |
| | SO ₂ | 13.2 | 13.7 | 14.5 | 13.7 | 13.9 | 12.9 | 14.1 | 13.9 | 15.6 | 15.2 | 16.3 | 16.2 | 80 |
| | NO _x | 16.0 | 16.0 | 17.3 | 16.0 | 16.7 | 15.2 | 16.4 | 16.7 | 18.4 | 17.5 | 19.1 | 18.5 | 80 |
| | CO | 542 | 546 | 501 | 536 | 498 | 521 | 541 | 512 | 542 | 523 | 559 | 542 | 2000 |
| Near Container | PM 10 | 58.9 | 56.9 | 50.2 | 56.9 | 47.6 | 54.6 | 56.8 | 51.3 | 56.8 | 61.6 | 57.3 | 62.4 | 100 |
| | PM 2.5 | 23.8 | 23.4 | 20.3 | 23.4 | 19.2 | 22.5 | 23.4 | 20.7 | 22.9 | 25.4 | 23.1 | 25.7 | 60 |
| | SO ₂ | 14.1 | 14.2 | 13.6 | 14.2 | 13.1 | 13.5 | 13.6 | 14.1 | 14.9 | 14.6 | 15.9 | 15.3 | 80 |
| | NO _x | 16.8 | 16.9 | 16.3 | 16.9 | 15.8 | 16.2 | 16.3 | 16.8 | 17.6 | 17.3 | 18.6 | 18.0 | 80 |
| | CO | 553 | 529 | 521 | 541 | 514 | 539 | 549 | 531 | 529 | 552 | 563 | 563 | 2000 |
| East Side of ML area | PM 10 | 61.6 | 51.6 | 54.3 | 51.6 | 50.7 | 50.3 | 53.4 | 52.9 | 54.6 | 60.3 | 56.9 | 62.3 | 100 |
| | PM 2.5 | 25.4 | 21.1 | 22.4 | 21.1 | 20.9 | 20.5 | 21.8 | 21.8 | 22.5 | 24.6 | 23.4 | 25.4 | 60 |
| | SO ₂ | 14.3 | 13.1 | 15.1 | 13.1 | 14.2 | 12.6 | 13.8 | 14.9 | 16.3 | 15.9 | 16.8 | 16.4 | 80 |
| | NO _x | 17.1 | 16.2 | 17.9 | 16.2 | 17.0 | 15.7 | 16.9 | 17.7 | 19.1 | 19.0 | 19.6 | 19.5 | 80 |
| | CO | 521 | 536 | 503 | 529 | 502 | 521 | 536 | 521 | 546 | 563 | 567 | 551 | 2000 |
| West side of ML area | PM 10 | 54.6 | 52.9 | 52.9 | 52.9 | 49.8 | 52.7 | 54.6 | 53.8 | 58.3 | 59.6 | 60.2 | 61.6 | 100 |
| | PM 2.5 | 22.3 | 22.0 | 21.6 | 22.0 | 20.3 | 21.9 | 22.7 | 22.0 | 23.8 | 24.8 | 24.6 | 25.6 | 60 |
| | SO ₂ | 13.9 | 12.9 | 12.9 | 12.9 | 12.1 | 12.3 | 13.9 | 13.5 | 15.8 | 15.5 | 16.6 | 16.5 | 80 |
| | NO _x | 16.4 | 15.7 | 15.4 | 15.7 | 14.6 | 15.1 | 16.7 | 16.0 | 18.3 | 18.3 | 19.1 | 19.3 | 80 |
| | CO | 540 | 540 | 512 | 534 | 512 | 514 | 528 | 538 | 553 | 580 | 562 | 589 | 2000 |

Note: All values are mentioned in $\mu\text{g}/\text{m}^3$

**THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - BUFFER ZONE VILLAGES
PERIOD - OCTOBER -2021 to MARCH-2022**

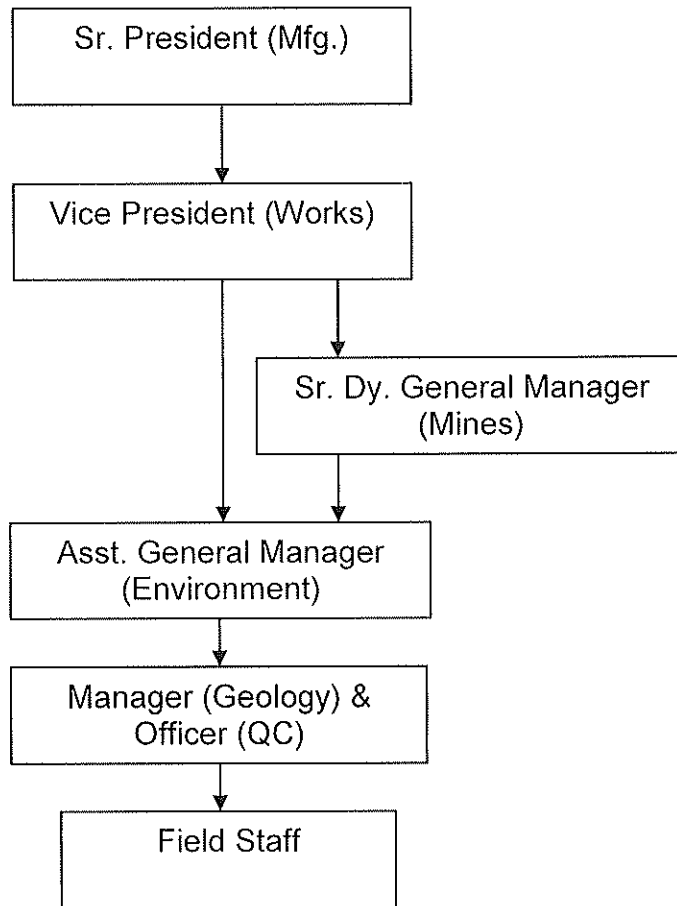
| Location | Parameter | Month | | | | | | | | | | | | Limit |
|------------------------|-----------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|-------|
| | | October-2021 | | November-2021 | | December-2021 | | January-2022 | | February-2022 | | March-2022 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Dharmavarapupadu Tanda | PM 10 | 45.1 | 53.7 | 48.3 | 46.9 | 46.1 | 45.4 | 47.8 | 47.1 | 48.9 | 52.3 | 51.2 | 53.9 | 100 |
| | PM 2.5 | 18.3 | 21.6 | 19.6 | 18.9 | 18.7 | 18.3 | 19.4 | 19.0 | 19.9 | 21.1 | 20.8 | 21.7 | 60 |
| | SO ₂ | 11.9 | 12.8 | 10.6 | 12.1 | 10.4 | 11.9 | 10.9 | 12.6 | 12.5 | 13.5 | 13.1 | 13.1 | 80 |
| | NO _x | 14.5 | 15.5 | 13.2 | 14.8 | 13.0 | 14.6 | 13.5 | 15.3 | 15.1 | 16.2 | 15.7 | 15.8 | 80 |
| | CO | 201.0 | 212.0 | 198.0 | 196.0 | 201.0 | 184.0 | 209.0 | 191.0 | 223.0 | 205.0 | 226.0 | 215.0 | 2000 |
| Jayanthipuram | PM 10 | 51.2 | 49.7 | 46.9 | 50.2 | 43.8 | 48.9 | 44.6 | 51.2 | 52.3 | 53.5 | 53.4 | 54.1 | 100 |
| | PM 2.5 | 20.5 | 20.3 | 18.8 | 20.5 | 17.6 | 20.0 | 17.9 | 20.9 | 21.0 | 21.8 | 21.4 | 22.1 | 60 |
| | SO ₂ | 12.9 | 13.5 | 11.2 | 10.6 | 10.8 | 11.1 | 11.2 | 11.6 | 11.6 | 12.9 | 12.4 | 13.2 | 80 |
| | NO _x | 15.8 | 16.4 | 14.1 | 13.5 | 13.7 | 14.0 | 14.1 | 14.5 | 14.5 | 15.8 | 15.3 | 16.1 | 80 |
| | CO | 182.0 | 215.0 | 179.0 | 178.0 | 211.0 | 169.0 | 218.0 | 176.0 | 241.0 | 223.0 | 248.0 | 229.0 | 2000 |
| Chillakallu | PM 10 | 50.3 | 51.3 | 46.2 | 48.3 | 45.1 | 46.1 | 47.1 | 48.9 | 47.6 | 49.6 | 48.9 | 52.3 | 100 |
| | PM 2.5 | 20.3 | 20.8 | 18.7 | 19.6 | 18.2 | 18.7 | 19.0 | 19.8 | 19.2 | 20.1 | 19.8 | 21.2 | 60 |
| | SO ₂ | 12.8 | 12.9 | 10.9 | 12.3 | 11.2 | 11.9 | 14.2 | 12.4 | 12.9 | 12.1 | 13.2 | 12.4 | 80 |
| | NO _x | 15.5 | 16.0 | 13.6 | 15.4 | 13.9 | 15.0 | 16.9 | 15.5 | 15.6 | 15.2 | 15.9 | 15.5 | 80 |
| | CO | 212.0 | 231.0 | 186.0 | 191.0 | 202.0 | 187.0 | 204.0 | 193.0 | 215.0 | 208.0 | 221.0 | 216.0 | 2000 |
| K.Agraharam Village | PM 10 | 49.8 | 51.9 | 47.1 | 47.1 | 44.9 | 45.3 | 45.3 | 47.3 | 53.5 | 54.3 | 55.2 | 55.2 | 100 |
| | PM 2.5 | 20.1 | 21.2 | 19.0 | 19.2 | 18.1 | 18.5 | 18.3 | 19.3 | 21.6 | 22.2 | 22.2 | 22.5 | 60 |
| | SO ₂ | 13.9 | 16.6 | 11.1 | 10.9 | 11.5 | 10.2 | 12.5 | 10.8 | 13.5 | 13.8 | 13.9 | 13.9 | 80 |
| | NO _x | 17.0 | 19.0 | 14.2 | 13.3 | 14.6 | 12.6 | 15.6 | 13.2 | 16.6 | 16.2 | 17.0 | 16.3 | 80 |
| | CO | 223.0 | 239.0 | 191.0 | 168.0 | 187.0 | 154.0 | 192.0 | 159.0 | 249.0 | 212.0 | 253.0 | 222.0 | 2000 |
| Jaggayyapet | PM 10 | 51.2 | 47.2 | 45.4 | 48.8 | 42.1 | 47.6 | 44.9 | 48.6 | 52.9 | 51.2 | 53.6 | 52.3 | 100 |
| | PM 2.5 | 21.0 | 19.1 | 18.7 | 19.7 | 17.3 | 19.2 | 18.5 | 19.6 | 21.7 | 20.7 | 22.0 | 21.1 | 60 |
| | SO ₂ | 13.1 | 16.1 | 10.8 | 11.6 | 10.5 | 11.5 | 11.2 | 11.9 | 12.6 | 12.6 | 12.8 | 12.6 | 80 |
| | NO _x | 15.5 | 19.1 | 13.2 | 14.6 | 12.9 | 14.5 | 13.6 | 14.9 | 15.0 | 15.6 | 15.2 | 15.6 | 80 |
| | CO | 241.0 | 247.0 | 182.0 | 171.0 | 189.0 | 163.0 | 195.0 | 165.0 | 246.0 | 221.0 | 248.0 | 228.0 | 2000 |
| Budawada | PM 10 | 55.1 | 53.5 | 50.3 | 51.6 | 47.3 | 50.2 | 48.6 | 52.3 | 50.6 | 49.8 | 52.7 | 51.6 | 100 |
| | PM 2.5 | 21.8 | 22.0 | 19.9 | 21.2 | 18.7 | 20.6 | 19.2 | 21.5 | 20.0 | 20.5 | 20.8 | 21.2 | 60 |
| | SO ₂ | 13.7 | 14.7 | 12.9 | 13.9 | 11.9 | 12.6 | 12.3 | 12.8 | 12.8 | 13.1 | 13.3 | 13.7 | 80 |
| | NO _x | 16.5 | 17.3 | 15.7 | 16.5 | 14.7 | 15.2 | 15.1 | 15.4 | 15.6 | 15.7 | 16.1 | 16.3 | 80 |
| | CO | 221.0 | 231.0 | 201.0 | 242.0 | 210.0 | 212.0 | 214.0 | 218.0 | 242.0 | 206.0 | 251.0 | 217.0 | 2000 |
| Vedadri | PM 10 | 52.3 | 51.6 | 43.2 | 45.3 | 44.9 | 44.9 | 45.3 | 47.1 | 53.8 | 52.9 | 54.2 | 54.6 | 100 |
| | PM 2.5 | 21.3 | 20.5 | 17.6 | 18.0 | 18.3 | 17.9 | 18.5 | 18.7 | 22.0 | 21.1 | 22.1 | 21.7 | 60 |
| | SO ₂ | 12.1 | 13.9 | 11.1 | 12.8 | 10.6 | 12.9 | 11.1 | 13.2 | 12.1 | 13.5 | 12.6 | 13.9 | 80 |
| | NO _x | 14.4 | 16.7 | 13.4 | 15.6 | 12.9 | 15.7 | 13.4 | 16.0 | 14.4 | 16.3 | 14.9 | 16.7 | 80 |
| | CO | 242.0 | 226.0 | 174.0 | 169.0 | 180.0 | 158.0 | 186.0 | 164.0 | 219.0 | 208.0 | 223.0 | 219.0 | 2000 |
| Pochampalli | PM 10 | 50.7 | 48.9 | 41.9 | 44.9 | 43.7 | 43.6 | 44.1 | 45.2 | 48.6 | 50.6 | 49.3 | 53.4 | 100 |
| | PM 2.5 | 20.7 | 19.9 | 17.1 | 18.2 | 17.9 | 17.7 | 18.0 | 18.4 | 19.9 | 20.5 | 20.2 | 21.7 | 60 |
| | SO ₂ | 13.4 | 14.3 | 10.2 | 11.9 | 10.1 | 11.6 | 10.9 | 11.9 | 12.7 | 12.6 | 12.9 | 12.8 | 80 |
| | NO _x | 16.3 | 16.6 | 13.1 | 14.2 | 13.0 | 13.9 | 13.8 | 14.2 | 15.6 | 14.9 | 15.8 | 15.1 | 80 |
| | CO | 179.0 | 229.0 | 169.0 | 162.0 | 169.0 | 156.0 | 174.0 | 163.0 | 221.0 | 198.0 | 229.0 | 201.0 | 2000 |
| Ravirala | PM 10 | 53.2 | 48.6 | 42.7 | 43.1 | 44.0 | 42.7 | 45.2 | 44.9 | 51.1 | 48.7 | 53.5 | 49.6 | 100 |
| | PM 2.5 | 21.7 | 19.8 | 17.4 | 17.6 | 17.9 | 17.4 | 18.4 | 18.3 | 20.8 | 19.9 | 21.8 | 20.2 | 60 |
| | SO ₂ | 12.5 | 13.6 | 10.5 | 12.1 | 10.3 | 11.4 | 10.6 | 11.8 | 11.9 | 13.2 | 12.3 | 13.3 | 80 |
| | NO _x | 15.5 | 16.5 | 13.5 | 15.0 | 13.3 | 14.3 | 13.6 | 14.7 | 14.9 | 16.1 | 15.3 | 16.2 | 80 |
| | CO | 192.0 | 242.0 | 158.0 | 151.0 | 161.0 | 149.0 | 165.0 | 155.0 | 208.0 | 212.0 | 223.0 | 228 | 2000 |

Note: All values are mentioned in µg/m³

**THE RAMCO CEMENTS LIMITED, KSR NAGAR
NOISE LEVEL MONITORING - RAMCO BUDAWADA LIMESTONE MINE
PERIOD - April -2021 to March-2022**

| Sl. No | Date of monitoring | Machine / Location | Noise Value dB(A) | | | |
|--------|--------------------|--------------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| | | | Day time (6AM to 10PM) | Permissible Limit dB(A) | Night time (10PM to 6AM) | Permissible Limit dB(A) |
| 1 | 22.09.2021 | Drilling area | 70.2 | < 75 | 66.9 | < 70 |
| 2 | 22.09.2021 | Loading area | 72.3 | < 75 | 61.6 | < 70 |
| 3 | 22.09.2021 | Haul road - 1 | 70.9 | < 75 | 60.7 | < 70 |
| 4 | 22.09.2021 | Haul road - 2 | 71.4 | < 75 | 59.1 | < 70 |
| 5 | 22.09.2021 | Rest Shelter | 50.3 | < 75 | 36.2 | < 70 |

**THE RAMCO CEMENTS LIMITED, KSR NAGAR
ORGANIZATIONAL CHART OF ENVIRONMENTAL CELL**



THE RAMCO CEMENTS LIMITED
JAYANTHIPUAM GROUP OF LIMESTONE MINES
ENVIRONMENTAL PROTECTION ACCOUNT - CAPITAL & RECURRING EXPENDITURE DETAILS

Annexure-VI

| Capital / Recurring | Description | For the year 2021-22, Lakh Rs. | | | | | Projected for 2022-23, Lakh Rs. | | | | |
|------------------------|---|---|---|--|--|---------|---|---|--|--|---------|
| | | Jayanthipuram Limestone Mine (North Band) | Jayanthipuram Limestone Mine (South Band) | Ravirala Limestone Mine (Forest) | Ramco Budawada Limestone Mine (RF) | Total | Jayanthipuram Limestone Mine (North Band) | Jayanthipuram Limestone Mine (South Band) | Ravirala Limestone Mine (Forest) | Ramco Budawada Limestone Mine (RF) | Total |
| | Pollution Control - None! detonators | 12.23 | 3.75 | 5.96 | 2.13 | 24.070 | 12.00 | 6.00 | 8.00 | 0.50 | 26.50 |
| | Pollution Control - Water Sprinkling | 28.93 | 7.32 | 16.71 | 4.18 | 57.14 | 22.00 | 7.00 | 20.00 | 1.00 | 50.00 |
| Recurring | Pollution Monitoring | 1.71 | 1.59 | 1.55 | 1.29 | 6.124 | 1.80 | 1.60 | 1.60 | 1.30 | 6.300 |
| | Wet drilling | 0.60 | 0.20 | 0.37 | 0.05 | 1.22 | 0.60 | 0.40 | 0.70 | 0.10 | 1.80 |
| | Greenbelt | 8.80 | 12.45 | 5.93 | 8.37 | 35.550 | 7.00 | 10.00 | 4.00 | 5.00 | 26.000 |
| | Reclamation | 410.69 | 0.00 | 0.00 | 0.00 | 410.690 | 200.00 | 0.00 | 0.00 | 0.00 | 200.000 |
| | Total | 462.96 | 25.31 | 30.52 | 16.02 | 534.79 | 243.40 | 25.00 | 34.30 | 7.90 | 310.600 |