



Kumarasamy Raja Nagar - 521457
Jaggayyapet Mandal, Krishna District,
Andhra Pradesh, India
Phone: 08654 224400-09
Fax: 08654-222532
E-mail: mcljpm@ramcocements.co.in

THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)

RCL/PCB-Form V/ 312 /

26th September 2017

The Environmental Engineer,
AP Pollution Control Board,
Regional Office,
Plot No.41, Kanakadurga Officers Colony,
Opp. SBH, Gurunanak Road,
VIJAYAWADA - 520 008.

Dear Sir,

Sub: Submission of Environmental Statement in Form - V for Jayanthipuram North Band Mine, Jayanthipuram South Band Mine, Ravirala Mine and Ramco Budawada Limestone Mine for the Financial Year 2016-17 - Reg.

Please find enclosed herewith three sets of Environmental Statement in Form- V for **Captive Mines of The Ramco Cements Limited** (Formerly Madras Cements Ltd.,)

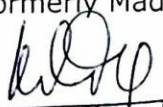
- Jayanthipuram Limestone Mine (North Band)
- Jayanthipuram Limestone Mine (South Band)
- Ravirala Limestone Mine
- Ramco Budawada Limestone Mine

for the financial year 2016-17 along with relevant enclosures.

This is for your information and records please.

Thanking you.

Yours faithfully,
For The Ramco Cements Limited,
(formerly Madras Cements Ltd.)


P JANI REDDY 29/9/17
Agent & Sr. Dy. Gen. Mgr. (Mines)

Encl: As above.



ENVIRONMENTAL STATEMENT (FORM – V)

FOR FINANCIAL YEAR 2016-17

**JAYANTHIPURAM LIMESTONE MINE (NORTH BAND)
JAYANTHIPURAM LIMESTONE MINE (SOUTH BAND)
RAVIRALA LIMESTONE MINE
RAMCO BUDAWADA LIMESTONE MINE**

An

**QMS- IS / ISO 9001:2008,
EMS- IS/ ISO 14001:2004,
OHSMS- IS 18001:2007,
EnMS – ISO 50001:2011
Certified Company**



**THE RAMCO CEMENTS LIMITED,
KUMARASAMY RAJA NAGAR 521457
JAGGAIHPET (M),
KRISHNA DIST., AP.**

ENVIRONMENTAL STATEMENT (FORM – V)
FOR FINANCIAL YEAR 2016-17
PART – A

1.	Name and address of the owner / occupier of the industry operation or process	The Ramco Cements Limited (Formerly Madras Cements Ltd), Kumarasamy Raja Nagar - 521 457, Jaggaiahpet Mandal, Krishna Dist., A.P.
	Industry operation or process	Captive Limestone Mines of The Ramco Cements Limited – <ul style="list-style-type: none"> • Jayanthipuram Limestone Mine (North Band) • Jayanthipuram Limestone Mine (South Band) • Ravirala Limestone Mine • Ramco Budawada Limestone Mine
2.	Date of the last environment audit report submitted	24 th September 2016

PART – B
WATER AND RAW MATERIAL CONSUMPTION

Water consumption m³/day:

Process	186.2 m ³ /day
Total	186.2 m³/day

Name of the product(s)	Water consumption per unit of products (m ³ /MT of Limestone)	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
Limestone	0.0654	0.0445

Note: Water consumption for domestic uses is being transported from water treatment plant located in cement plant. This quantity is included in the cement plant domestic use category, hence not mentioned here.

Water consumption is increased in the financial year 2016-17 while compared to financial year 2015-16. The causes are:

- Decrease in the production in the financial year 2016-17 while comparing with the financial year 2015-16.
- Increase in the area of greenbelt.

Raw material consumption:

	Name of the raw material	Consumption of raw material	
		During the current financial year (2015-16)	During the current financial year (2016-17)
1	Diesel Oil, L	8,93,987	8,52,609
2	Lubricant Oil, L	15,900	13,180
3	Grease, kg	4,710	4,921
4	ANFO, kg	1,91,250	1,87,100
5	Slurry explosives – 25mm dia., kg	1,961	1,558
6	Slurry explosives – 83 mm dia., kg	69,025	67,475
7	Electrical Detonators – Ordinary, Nos.	5,628	4,907
8	Electrical Detonators – Delay, Nos.	1,843	1,996
9	Nonel Detonators, Nos.	9,444	8,837
10	Detonating fuse, m	26,490	16,375

PART- C
(Parameter as specified in the consent issued)

Pollution Type	Pollution Board Norms	Quantity of Pollution Generation	% of Variation from Prescribed Standards with Reason	Remarks
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(a) Water & Waste Water

No process effluent generation from limestone extraction. Mine seepage water is being allowed to settle in mine sump. The sump outlet water is used for:

- Cement plant & power plant process requirements,
- Water sprinkling purpose,
- Greenbelt development purpose,
- Domestic water requirements of plant, mines & colony,
- Domestic water requirements of nearby villages & Jaggaiahpet town,
- Part of this outlet water is used for agricultural purpose in the nearby areas, used for nearby ground water recharging pit and
- balance is being let out.

Mine seepage water quality data for the samples collected in the financial year 2016-17 is enclosed as Annexure - I. The values are within the specified limits. Treated waste water from workshop (outlet of oil & grease trap) is used for greenbelt development. Compiled data for oil & grease trap outlet water analysis reports carried out in the financial year 2016-17 is enclosed as Annexure – II. The values are within the specified limits. The average values are:

Parameter	Unit	Norm	Average Value / Range (2015-16)	Average Value / Range (2016-17)
p ^H		5.5 - 9.0	7.22 – 7.62	7.30 – 7.63
TDS	mg/L	2100	1706.3	1671.9
TSS	mg/L	100	70.3	58.3
COD	mg/L	250	141.2	109.8
BOD	mg/L	100	46.2	31.1
O & G	mg/L	10	7.4	8.7

(b) Air:

(i) Ambient Air Quality Monitoring:

Data on ambient air quality monitoring carried out in the nearby villages (buffer zones of limestone mining leases) in the financial year 2016-17 is enclosed as Annexure - III. Data on core zone air monitoring carried out in four mining leases in the financial year 2016-17 is enclosed as Annexure - III. The values are within the specified limits. The average values are:

Location / Norm	Average concentration of pollution type, µg/m ³							
	Financial year 2015-16				Financial year 2016-17			
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x
Pollution Board Norms	100	60	80	80	100	60	80	80
Dharmavarapadu Thanda	59.96	29.96	15.51	27.13	52.71	22.25	12.96	19.29
Own Your House Colony / Chillakallu	55.46	36.38	15.33	25.12	51.75	23.00	13.92	19.83
K Agraharam Village	50.42	30.58	14.55	24.03	50.29	21.83	13.58	19.79
Padmavathi Nagar	49.42	27.17	14.40	25.03	54.92	23.29	13.54	19.79
Jayanthipuram Village	59.71	31.63	14.18	27.03	55.13	23.71	13.54	19.96
Ravirala Village	52.25	34.88	16.15	23.98	54.17	22.67	13.83	19.54
Vedadri Village	51.63	33.75	16.12	23.58	53.75	23.04	13.38	19.63
Jaggayyapet	57.83	39.13	16.17	24.34	51.67	22.13	13.38	19.75
Budawada Village	46.38	29.54	16.66	24.58	50.83	22.00	13.38	19.75

Mine	Location	Average concentration, $\mu\text{g}/\text{m}^3$							
		Financial year 2015-16				Financial year 2016-17			
		PM ₁₀	PM _{2.5}	SO ₂	NOx	PM ₁₀	PM _{2.5}	SO ₂	NOx
Pollution Board Norms		100	60	80	80	100	60	80	80
Jayanthipuram Limestone Mine (North Band)	Mines Office	58.46	35.58	16.19	24.69	61.58	26.17	14.13	20.21
	Workshop	61.08	38.71	18.60	27.17	62.00	27.08	14.58	20.25
	Sub-station	58.42	38.79	16.33	24.92	56.46	24.42	13.38	19.92
	Magazine Area	62.04	42.55	17.39	26.23	53.08	23.88	13.29	20.00
Jayanthipuram Limestone Mine (South Band)	Mines Office	54.00	32.25	13.31	23.97	60.71	24.88	14.04	19.88
	Pump House	56.63	33.08	16.10	25.66	56.75	23.04	13.67	20.38
	Haul Road	61.17	41.25	17.30	28.47	68.63	30.04	14.75	20.63
	Loading Area	64.83	41.04	18.12	27.89	67.88	30.38	14.63	20.58
Ravirala Limestone Mine	Mines Office	54.25	29.67	14.30	23.82	56.00	24.33	13.33	18.75
	ML3 Tower Light Area	50.00	28.29	14.75	23.95	51.13	22.58	14.21	18.92
	ML4 Tower Light Area	46.75	28.54	15.31	22.73	48.75	20.25	14.25	19.46
	View Point Tower Light Area	49.79	30.17	17.33	23.18	48.04	21.33	14.13	19.17
Ramco Budawada Limestone Mine	Drilling Area	40.17	25.63	12.33	21.54	57.29	25.04	13.38	19.63
	Loading Area	43.46	27.21	12.64	22.37	57.92	26.25	13.88	20.08
	Haul Road	38.00	25.29	13.52	19.88	62.96	28.75	14.17	20.17
	Unloading Area	39.88	27.46	14.83	21.81	63.29	29.58	14.04	20.50

PART – D HAZARDOUS WASTES

(As specified under Hazardous Wastes/ Management and Handling Rules. 1989)

Hazardous Waste	During the previous financial year (2015-16)	During the current financial year (2016-17)
I. Hazardous Waste Disposed to external agencies		
Waste oil	7.56 kL	23.10 kL
Waste grease	----	0.55 Tonne
Waste lead acid batteries	----	----
Waste Hi-chrome Grinding Media	----	3.94 Tonne
Hazardous Waste Consumed (brought from external agencies)		
Iron Sludge	6894.18 Tonne	6215.645 Tonne

- Copy of Form - 4 (submitted to APPCB) - Hazardous Waste generation / receipts and consumption / disposal details for both plant & mines in the financial year 2016-17 is enclosed as Annexure - IV.
- Part of the waste oil / lubricants is used along with fresh grease for reclaimers of cement plant.

PART – E SOLID WASTES

	During the previous financial year (2015-16)	During the current financial year (2016-17)
(a) From process		
I. Overburden / waste Generation, Tonne		
i. From Jayanthipuram Limestone Mine (North Band)	4,20,653	2,66,632
ii. From Jayanthipuram Limestone Mine (South Band)	22,870	27,990
iii. From Ravirala Limestone Mine	1,36,224	1,73,809
iv. From Ramco Budawada Limestone Mine	0	0
II. Top Soil Generation, Tonne		
i. From Jayanthipuram Limestone Mine (North Band)	0	0

	During the previous financial year (2015-16)	During the current financial year (2016-17)
ii. From Jayanthipuram Limestone Mine (South Band)	0	0
iii. From Ravirala Limestone Mine	0	0
iv. From Ramco Budawada Limestone Mine	0	0
(b) From pollution control facility (wet drilling, water sprinkling, etc.)	No solid waste generated	No solid waste generated
(c) Quantity recycled or re-utilized (for reclamation), Tonne		
i. Jayanthipuram Limestone Mine (North Band)	4,20,653	2,47,184
ii. Jayanthipuram Limestone Mine (South Band)	0	0
iii. Ravirala Limestone Mine	1,36,224	1,20,353
iv. Ramco Budawada Limestone Mine	0	0

PART – F

(Please specify the characteristics in terms of concentration and quantum)

Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

- Mine overburden / waste materials from Jayanthipuram Limestone Mine (North Band) and Ravirala Limestone Mine are used for reclamation / rehabilitation purposes.
- Mine overburden / waste materials from Jayanthipuram Limestone Mine (South Band) are used for dumps / bunds formation.
- Copy of Form - 4 (submitted to APPCB) - Hazardous Waste generation / receipts and consumption / disposal details for both plant & mines in the financial year 2016-17 is enclosed as Annexure - IV.

PART - G

Impact of the pollution control measures on concentration of natural resources and consequently on the cost of production.

- All the surrounding areas are kept free from pollution.
- The recurring expenditure incurred for environmental protection measures in financial year 2016-17 is Rs. 241.36 lakh for all four operating mining leases i.e., nearly Rs. 15.82 per Tonne of limestone production against Rs. 31.41 per Tonne of limestone production in the financial year 2015-16. The expenditure details of environmental protection measures for the financial year 2016-17 are enclosed as Annexure - V.

PART – H

Additional investment proposal for environmental protection including abatement of pollution.

As part of environmental protection measures, 12.00 ha and 1.21 ha is reclaimed by the end of financial year 2016-17 at Jayanthipuram Limestone Mine (North Band) and Ravirala Limestone Mine respectively.

Earthen check bund is constructed in SE direction of the Ravirala Limestone Mine in the financial year 2016-17 to collect rain water for ground water recharging.

PART - I

Any other particulars in respect of environment protection and abatement of pollution

- Detailed environmental protection measures are enclosed as Annexure - VI.
- Environmental Management System - IS / ISO 14001:2004 from 2005 is implemented along with Quality Management System - IS / ISO 9001:2008, Occupational Health & Safety Management System - IS 18001:2007, Energy Management System - ISO 50001:2011 and Work Place Management - 5S Certification.

ENVIRONMENTAL PROTECTION MEASURES

Ramco group of Companies have diversified activities in Cement, Textiles, Fibre-Cement Products, Wind Energy, Software Products, Surgical Dressings, Ready-Mix Concrete and Dry Mortar Plants.

The Ramco Cements Limited (formerly known as Madras Cements Ltd.) is a unit of the Ramco Group which has been growing steadily right from its inception with present capacity 16.5 Million Tonnes / Annum of cement. RCL, which has always been striving for Total Quality Management, possesses International Certificates IS/ISO 9001:2008, IS/ISO 14001:2004, IS 18001:2007, ISO 50001:2011 and 5-S Workplace Management System. The company has achieved various awards for 'Best Performance' in the Cement Industry and also Green Rating Project Awards 4 Leaves from Centre for Science and Environment for the Year 2005.

The KSR Nagar plant was presented with an Award in recognition of practicing 'Cleaner Production Measures' from AP Pollution Control Board, Hyderabad for the year 2011-12 on the eve of World Environment Day – 05th June 2012. Andhra Pradesh Pollution Control Board recommended for 'Better Environmental Practices Award - First in Cement Industry Category for the year 2016-17 in the State of Andhra Pradesh'.

Captive Limestone Mines are obtaining awards in Mines Environmental & Mineral Conservation Week and in Mines Safety Week celebrations. Captive Mines is using Nonel Delay Detonators, to reduce ground vibration, to avoid fly rocks & fugitive dust. Permanent water sprinkling system is installed on mines haul road to reduce fugitive dust.

PRODUCTION DETAILS IN THE FINANCIAL YEAR 2016-17:

Name of the Mine	Production Capacities of Mines as per EC, TPA	For Financial Year 2016-17, Tonne	
		Production	Despatch
Jayanthipuram Limestone Mine (North Band)	20,00,000	7,94,000	7,19,000
Jayanthipuram Limestone Mine (South Band)	5,00,000	3,34,000	3,34,000
Ravirala Limestone Mine	12,00,000	3,97,000	3,97,000
Ramco Budawada Limestone Mine*	11,00,000	1,000	1,000

* Mine opened on 01.02.2014. Developmental activities like leveling, approach road laying, exploration, etc., are under progress.

AIR:**Air Pollution Control Measures:**

- Permanent water sprinkling system is installed on mines haul road to reduce fugitive dust.
- Non-el delay detonators are used to reduce ground vibration, to avoid fly rocks & fugitive dust.
- Massive greenbelt development all along the haul roads.
- Dozer is used for dozing haul roads regularly.
- Mobile water sprinklers are used for water sprinkling on internal haul roads & muck pile.

Ambient Air Quality Monitoring:

2 Nos. of Continuous ambient air quality monitoring stations are installed at:

- Time Office
- Mines Office

to monitor the following parameters:

- PM₁₀
- PM_{2.5}
- SO₂
- NO_x

On-line Continuous Ambient Air Quality Monitoring data is linked up with APPCB & CPCB websites.

Ambient Air Quality is being monitored by MoEF&CC approved external agency at nearby villages. Compiled data on Ambient Air Quality monitoring at nearby villages carried out in the financial year 2016-17 is enclosed in Annexure - III. Compiled data on core zone air quality monitoring for four mining leases carried out in the financial year 2016-17 is also enclosed in Annexure - III.

WATER:**Water Requirement:**

Total water requirement for Captive Mines is 186.2 m³/day in the financial year 2016-17 against 246.0 m³/day in the financial year 2015-16. Total water requirement for Cement Plant, Thermal Power Plant, Captive Mines and for Domestic Purposes is 3909.3 m³/day in the financial year 2016-17. For which, State Ground Water Department accorded permission for water withdrawal @ 7000 m³/day.

Water Level Data & Water Quality Data:

Water levels are regularly monitored through piezometers at 4 mining leases [Jayanthipuram Limestone Mine (North Band), Jayanthipuram Limestone Mine (South Band), Ravirala Limestone Mine and Ramco Budawada Limestone Mine] on regular basis. Data on water levels collected up to financial year 2016-17 is enclosed as Annexure – VII. Auto water level recorder (Piezometer) is installed to measure water levels at Ravirala Limestone Mine in the month of February 2012 and data is being recorded continuously.

Mine seepage water quality is being regularly analysed by MoEF&CC approved external agency on monthly basis. Data on mine seepage water quality in the financial year 2016-17 is enclosed as Annexure – I. Water quality data for the samples collected in the nearby villages is enclosed as Annexure – VIII.

Waste Water Quality Analysis:

Workshop effluents are being treated in oil & grease trap located and the outlet water is being used for greenbelt development. Compiled data on analysis reports of workshop oil & grease trap outlet water carried out in the financial year 2016-17 by MoEF&CC approved external agency is enclosed as Annexure - II. Domestic wastewater is being treated in respective septic tanks followed by soak pits.

RAIN WATER HARVESTING PITS & CHECK DAMS:

- 48 Nos. of rain water harvesting structures are made to recharge the ground water in the colony by March 2017. 3 Nos. of rain water harvesting structures are made to recharge the ground water in the plant by March 2017. The locations of these pits are listed in Annexure - IX.
- 1 No. of check dam is constructed at Jayanthipuram Limestone Mine (North Band) and 1 No. of check dam is located near Ravirala Limestone Mine. Check bund is constructed in SE direction of Ravirala Limestone Mine.

Water Conservation:

Water collected in mine pits is being used for:

- Cement plant,
- Thermal power plant,
- Domestic use,
- Greenbelt activities,
- Nearby agriculture fields for an area of around 60 acres,
- The excess waste water, if any, is being passed to pond in our own lands to uplift the water table nearby area.

Drinking Water:

Reverse Osmosis (RO) plant is located at colony and purified water is being distributed to all offices, mines and colony houses. The analysis reports of RO plant inlet and outlet samples in the financial year 2016-17 are enclosed as Annexure - X.

NOISE & VIBRATION LEVELS:

Noise level data collected in the mines areas in the financial year 2016-17 is listed out in Annexure - XI.

Vibration levels are being monitored by Minimate instrument regularly. The vibration reports collected while blasting at four mining leases [Jayanthipuram Limestone Mine (North Band), Jayanthipuram Limestone Mine (South Band), Ravirala Limestone Mine and Ramco Budawada Limestone Mine] in the financial year 2016-17 are enclosed as Annexure – XII.

OCCUPATIONAL HEALTH:

Occupational health check-ups are being carried out for new employees at the time of joining into the organization and occupational health surveillance programme is carried out for all the employees regularly. Full-fledged occupational health centre is established and services are being rendered by qualified occupational health specialist.

Occupational health checkup at the time of recruitment is being carried for all the employees as per Mines Rules, with the following tests:

- Lung function test
- ECG
- Chest X-ray
- Blood analysis test
- Urine analysis test
- Audiometry
- Checking colour blindness
- Stool Analysis
- Sputum (Optional)

The employees who are working at the time of initiation of this programme are covered for these tests. If any person failed in this health checkup, was not recruited. Like so, a baseline data on the health status of workmen in the Pre-recruitment stage was established. The same is being repeated periodically to update and to take action accordingly.

Occupational health surveillance on regular basis is being carried for all the employees, with the following tests:

- Clinical examination including Neurological assessment
- Lung function test
- ECG
- Chest X-ray
- Blood analysis test
- Urine analysis test
- Audiometry
- Checking colour blindness

If any person failed in this health checkup, he will be shifted / transferred to non-hazardous activities. Till now, no such case is observed. Occupational Health Centre (with qualified Occupational Health Specialist) is established with the following facilities:

- 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

The first aid box is made available for immediate treatment. First aid training is imparted to the selected employees regularly. The list of first aid members is being displayed at strategic places.

BIO-MEDICAL WASTE HANDLING:

Operating Occupational Health Centre to provide basic first aid facilities within the premises. Bio-medical waste from this Occupational Health Centre is being regularly collected by nearby APPCB authorized agent, M/s Safenviron Bio-Medical Treatment Plant for onward treatment. The agency collects the bio-medical waste on 48 hours basis.

Bio-Medical Waste Annual Returns in the stipulated format (for the calendar year) are being regularly submitted to the Board within stipulated time. Copy of Bio-Medical Annual Returns submitted for the calendar year 2016 is enclosed as Annexure - XIII.

HAZARDOUS WASTE HANDLING:

Copy of Form – 4 submitting quantities of various hazardous wastes available by 31st March 2017 along with consumption / dispatch of the same in the financial year 2016-17 for both plant and mines is enclosed as Annexure – IV. Monthly consumption / disposal quantity details of hazardous waste are being submitted to Board on regular basis.

SOLID WASTE HANDLING & RECLAMATION:

- Total solid waste handled in the financial year 2016-17 is as follows:

Name of the Mine	Solid Waste, Tonne		
	Generated	Used in reclamation	Dumped in dumps
Jayanthipuram Limestone Mine (North Band)	2,66,632	2,47,184	19,448
Jayanthipuram Limestone Mine (South Band)	27,990	0	27,990
Ravirala Limestone Mine	1,73,809	1,20,353	53,456
Ramco Budawada Limestone Mine	0	0	0

- 12.00 ha and 1.21 ha is reclaimed by the end of financial year 2016-17 at Jayanthipuram Limestone Mine (North Band) and Ravirala Limestone Mine respectively.
- No reclamation is initiated for Jayanthipuram South Band and Ramco Budawada Limestone Mines as these working pits are in progress.

CLEANER PRODUCTION PRACTICES:

To control air emissions as well as fugitive emissions from various sources, various cleaner production practices are initiated. These are:

- Permanent water sprinkler system is installed for a length of nearly 2 km at mines haul road.
- Mobile Water sprinkling on mines internal haul roads.
- Nonel delay detonators instead of conventional detonators.
- Minimate vibration monitor is used to measure the ground vibrations and to control them accordingly.

- Reclamation & rehabilitation initiated at mined out areas.
- For better housekeeping, '5-S – Work Place Management' is implemented.

GREENBELT ACTIVITIES:

Areas of greenbelt developed within ML area as on 31.03.2017 are as follows:

Name of the Mine	Area specified in EC order	Developed up to 31.03.2017
Jayanthipuram Limestone Mine (North Band)	62.39	60.29
Jayanthipuram Limestone Mine (South Band)	19.05	14.83
Ravirala Limestone Mine	3.19	5.91
Ramco Budawada Limestone Mine	0.0	0.0

Note: All values are mentioned in ha.

An amendment is requested to the Ministry to amend the EC condition of Jayanthipuram North Band Mining Lease.

Page 1 of EC specifies that:

'About 18.95 ha of area has been earmarked for waste dumps, 4.34 ha for bund, 1.50 ha for infrastructure, 4.06 ha for roads, 62.39 ha for afforestation & greenbelt development and 42.77 ha area will be reclaimed.'

Point No. iv of Specific conditions of EC specifies that:

'Plantation shall be raised in an area of 195.54 Ha including a greenbelt of adequate width by planting the native species around the ML area, roads, OB dump sites etc., in consultation with the local DFO / Agriculture department. The density of the trees shall be around 2500 plants per Ha. The company shall avoid plantation of mono culture species. Further greenbelt shall be developed in the North to NE direction of mine to protect the temple from dust emission. Fruit bearing species shall be planted by involving local people especially women with the help of self help groups.'

At the time of obtaining EC, the existing greenbelt area is 24.00 ha as per approved Mining Plan and the proposed greenbelt area at the conceptual stage is 62.39 ha. The same is mentioned in approved Mining Plan as well as in Page Nos. 69 & 86 of Rapid EIA report submitted to the Ministry for this project.

In the same lines, in page 1 of EC letter, it is mentioned that 62.39 ha of greenbelt area is to be developed. But the Point No. iv of Specific conditions of EC specifies that 195.54 ha of greenbelt is to be developed. The proposed land use pattern at conceptual stage specifies that 62.39 ha of greenbelt will be developed.

We understand that this figure of 195.54 ha of greenbelt area may be arrived inadvertently adding the following areas:

Excavated pit	122.53 ha.
Dumps / bunds	23.29 ha.
Area not to be broken-up (including dumps / bunds also)	49.72 ha.
Total	195.54 ha.

It is feasible to develop greenbelt over an area of 62.39 ha only.

Hence an amendment request is made for the above condition (in the Point No. iv of Specific conditions of EC) as 'Plantation shall be raised in an area of 62.39 ha -----' in place of 'Plantation shall be raised in an area of 195.54 Ha ----'.

The amendment request is discussed in the 39th EAC meeting of Non-coal Mining Committee, MoEF&CC on 28th October 2015. The committee recommended for the following (Page No. 102 & 103, Point No. 2.62):

The committee deliberated at length the information submitted by PP and recommended to amend the Point No. iv of Specific Condition of EC No. J-11015/377/2006-IA.II(M) dated 18.05.2007 in line with Page No. 1 of the EC letter, as 'Plantation shall be raised in an area of 62.39 ha'.

Extract of minutes of this meeting is enclosed herewith as Annexure – XIV, for which EC amendment is under process. Emphasis is being made to maintain 62.39 ha greenbelt area within the mining lease area.

RECENT SOCIO - ECONOMIC MEASURES CARRIED OUT:

As part of Corporate Social Responsibility, various socio-economic measures carried out. Cost of various socio-economic activities for the surrounding villages for the past 11 years (2003-14) is Rs. 4,05,79,555/- i.e., nearly Rs. 36.89/- lakh per annum. Amount spent for various socio-economic activities in the financial years 2014-15, 2015-16 & 2016-17 are Rs. 54.18 lakh, Rs. 42.40 lakh & Rs. 85.60 lakh respectively. The details are enclosed as Annexure - XV. Some of the major initiatives taken in the financial year 2016-17 are as follows:

- Medical camps conducted in nearby villages. 38 Nos. of medical camps conducted in nearby villages in the financial year 2016-17 and medicines are being distributed at free of cost.
- Annadanam programmes on the eve of Founder's Day.
- Water supply for agriculture fields at Jayanthipuram Village. Water supply for Jayanthipuram village, Dharmavarapupadu Thanda village & Budawada village (in summer season) for safe drinking water.
- Rebate is given for School Fee for the Children of Contract Workmen, studying at SSVR Mandir School.
- Arrangements for Krishna Pushkaralu like food arrangements at Vedadri, shed construction Vedadri, etc.
- Financial assistance for floor replacement work Chennakeshava Swami Temple, Jaggaiahpet.
- Financial assistance for Annadhanam at Sri Brahmaramba Sahitha Naga Lingeshwara Swamy Temple, Budawada village.
- Financial assistance for lymphatic filariasis affected persons through LEPRAs society at Jaggaiahpet Mandal.
- Financial assistance for providing railing around the Anjaneya Temple, Ravirala village.
- Financial Assistance for Literacy Programme at Dharmavarapupadu Thanda for Women through Akshara Vayojana Vidya.

EXPENDITURE INCURRED FOR ENVIRONMENT PROTECTION:

- Various expenditures incurred for environment protection measures (other than socio-economic measures) for 4 mining leases [Jayanthipuram Limestone Mine (North Band), Jayanthipuram Limestone Mine (South Band), Ravirala Limestone Mine and Ramco Budawada Limestone Mine] are listed in Annexure - V.
- Recurring expenditure made during financial year 2016-17 for four mining leases is Rs. 241.36 lakh and capital cost of Rs. 1.29 lakh. Cost of environment protection measures per tonne of limestone produced (from 4 mining leases) is Rs. 15.82 per Tonne in the financial year 2016-17 against Rs. 31.41/- per Tonne in the financial year 2015-16.
- Budget proposed for various environment protection measures for the financial year 2017-18 is listed in Annexure - V with a sum of Rs. 228.50 lakh.

CELEBRATION OF WORLD ENVIRONMENT DAY:

- On the eve of World Environment Day – 5th June 2016, plantation activity conducted at plant premises, mines premises, colony premises and at surrounding areas.
- Distributed WED – 2016 batches (prepared by National Safety Council) to our employees and took Environmental Oath.