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## THE RAMCO CEMENTS LIMITED

(Formerly known as Madras Cements Ltd.)

RCL-Form V/240/208

24<sup>th</sup> September 2016

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 – 2015-16 - 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 2015-16 along with relevant enclosures.

This is for your information and records please.

Thanking you.

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

BSP RAJU  
Asst. Vice President (Mines)

Encl: As above.

**ENVIRONMENTAL STATEMENT (FORM – V)  
FOR FINANCIAL YEAR 2015-16**

**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 2015-16  
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"> <li>• Jayanthipuram Limestone Mine (North Band)</li> <li>• Jayanthipuram Limestone Mine (South Band)</li> <li>• Ravirala Limestone Mine</li> <li>• Ramco Budawada Limestone Mine</li> </ul>
2.	Date of the last environment audit report submitted	19 <sup>th</sup> September 2015

**PART – B  
WATER AND RAW MATERIAL CONSUMPTION**

**Water consumption m<sup>3</sup>/day:**

Process	246 m <sup>3</sup> /day
<b>Total</b>	<b>246 m<sup>3</sup>/day</b>

Name of the product(s)	Water consumption per unit of products (m <sup>3</sup> /MT of Limestone)	
	During the previous financial year (2014-15)	During the current financial year (2015-16)
Limestone	0.0397	0.0654

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 2015-16 while compared to financial year 2014-15. The causes are:

- Less rainfall in 2015-16 while compared to 2014-15.
- Increase in length of haul roads for Ramco Budawada Limestone Mine to Limestone Crusher located at cement plant area. More area for water sprinkling for haul roads.
- Decrease in the production in the year 2015-16 while comparing with 2014-15.
- Increase in the area of greenbelt.

**Raw material consumption:**

	Name of the raw material	Consumption of raw material	
		During the current financial year (2014-15)	During the current financial year (2015-16)
1	Diesel Oil, L	1288880	893987
2	Lubricant Oil, L	19170	15900
3	Grease, kg	6064	4710
4	ANFO, kg	304800	191250
5	Slurry explosives – 25mm dia., kg	2687	1961
6	Slurry explosives – 83 mm dia., kg	94450	69025

7	Electrical Detonators – Ordinary, Nos.	14955	5628
8	Electrical Detonators – Delay, Nos.	1616	1843
9	Nonel Detonators, Nos.	16679	9444
10	Detonating fuse, m	48975	26490

**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,
- 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 year 2015-16 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 2015-16 is enclosed as Annexure – II. The values are within the specified limits. The average values are:

Parameter	Unit	Norm	Average Value / Range (2014-15)	Average Value / Range (2015-16)
pH		5.5 - 9.0	6.48 – 7.36	7.22 – 7.62
TDS	mg/L	2100	1927.0	1706.3
TSS	mg/L	100	87.5	70.3
COD	mg/L	250	227.7	141.2
BOD	mg/L	100	85.8	46.2
O & G	mg/L	10	8.4	7.4

**(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 2015-16 is enclosed as Annexure - III. Data on core zone air monitoring carried out in four mining leases in the financial year 2015-16 is enclosed as Annexure - III. The values are within the specified limits. The average values are:

Mine	Location	Average concentration, $\mu\text{g}/\text{m}^3$			
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
Jayanthipuram Limestone Mine (North Band)	Mines Office	58.46	35.58	16.19	24.69
	Workshop	61.08	38.71	18.60	27.17
	Sub-station	58.42	38.79	16.33	24.92

Mine	Location	Average concentration, $\mu\text{g}/\text{m}^3$			
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
	Magazine Area	62.04	42.55	17.39	26.23
Jayanthipuram Limestone Mine (South Band)	Mines Office	54.00	32.25	13.31	23.97
	Pump House	56.63	33.08	16.10	25.66
	Haul Road	61.17	41.25	17.30	28.47
	Loading Area	64.83	41.04	18.12	27.89
Ravirala Limestone Mine	Mines Office	54.25	29.67	14.30	23.82
	ML3 Tower Light Area	50.00	28.29	14.75	23.95
	ML4 Tower Light Area	46.75	28.54	15.31	22.73
	View Point Tower Light Area	49.79	30.17	17.33	23.18
Ramco Budawada Limestone Mine	Drilling Area	40.17	25.63	12.33	21.54
	Loading Area	43.46	27.21	12.64	22.37
	Haul Road	38.00	25.29	13.52	19.88
	Unloading Area	39.88	27.46	14.83	21.81

Location	Parameter	Average concentration, $\mu\text{g}/\text{m}^3$
Dharmavarapadu Thanda	PM <sub>2.5</sub>	29.96
	PM <sub>10</sub>	56.96
	SO <sub>2</sub>	15.51
	NO <sub>x</sub>	27.13
Own Your House Colony / Chillakallu	PM <sub>2.5</sub>	36.38
	PM <sub>10</sub>	55.46
	SO <sub>2</sub>	15.33
	NO <sub>x</sub>	25.12
K Agraharam Village	PM <sub>2.5</sub>	30.58
	PM <sub>10</sub>	50.42
	SO <sub>2</sub>	14.55
	NO <sub>x</sub>	24.03
Padmavathi Nagar	PM <sub>2.5</sub>	27.17
	PM <sub>10</sub>	49.42
	SO <sub>2</sub>	14.40
	NO <sub>x</sub>	25.03
Jayanthipuram	PM <sub>2.5</sub>	31.63
	PM <sub>10</sub>	59.71
	SO <sub>2</sub>	14.18
	NO <sub>x</sub>	27.03
Ravirala Village	PM <sub>2.5</sub>	34.88
	PM <sub>10</sub>	52.25
	SO <sub>2</sub>	16.15
	NO <sub>x</sub>	23.98
Vedadiri Village	PM <sub>2.5</sub>	33.75
	PM <sub>10</sub>	51.63
	SO <sub>2</sub>	16.12
	NO <sub>x</sub>	23.58
Jaggayyapet	PM <sub>2.5</sub>	39.13
	PM <sub>10</sub>	57.83
	SO <sub>2</sub>	16.17
	NO <sub>x</sub>	24.34
Budawada	PM <sub>2.5</sub>	29.54
	PM <sub>10</sub>	46.38
	SO <sub>2</sub>	16.66
	NO <sub>x</sub>	24.58

**PART – D  
HAZARDOUS WASTES**

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

<b>Hazardous Waste</b>	<b>During the previous financial year (2014-15)</b>	<b>During the current financial year (2015-16)</b>
<b>I. Hazardous Waste Disposed to external agencies</b>		
Waste oil	13.65 kL	7.56 kL
Waste lead acid batteries	25 Nos.	----

\* Copy of Form - 4 (submitted to APPCB) - Hazardous Waste generation / receipts and consumption / disposal details for both plant & mines in the year 2015-16 is enclosed as Annexure - IV.

- Part of the waste oil / lubricants is used along with fresh grease for reclaimers.

**PART – E  
SOLID WASTES**

	<b>During the previous financial year (2014-15)</b>	<b>During the current financial year (2015-16)</b>
(a) From process		
<b>I. Overburden / waste Generation, Tonne</b>		
i. From Jayanthipuram Limestone Mine (North Band)	4,92,599	4,20,653
ii. From Jayanthipuram Limestone Mine (South Band)	99,472	22870
iii. From Ravirala Limestone Mine	2,76,803	1,36,224
iv. From Ramco Budawada Limestone Mine	0	0
<b>II. Top Soil Generation, Tonne</b>		
i. From Jayanthipuram Limestone Mine (North Band)	0	0
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)	4,92,599	4,20,653
ii. Jayanthipuram Limestone Mine (South Band)	0	0
iii. Ravirala Limestone Mine	18,476	1,36,224
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 (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 year 2015-16 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 in financial year 2015-16 is Rs. 430.80 lakh for all four operating mining leases i.e., nearly Rs. 31.41 per Tonne of limestone production against Rs. 16.86 per Tonne of limestone production in the financial year 2014-15. The expenditure details of environmental protection measures for the financial year 2015-16 are enclosed as Annexure - V.

#### **PART - H**

*Additional investment proposal for environmental protection including abatement of pollution.*

As part of environmental protection measures, 11.47 ha and 0.83 ha is reclaimed by the end of financial year 2015-16 at Jayanthipuram Limestone Mine (North Band) and Ravirala Limestone Mine respectively.

It is proposed to construct a earthen check dam at 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 (5-S 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 and ISO 50001:2011. 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 – 05<sup>th</sup> June 2012. 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 2015-16:

Name of the Mine	Production Capacities of Mines as per EC, TPA	Actual Production for the Year 2015-16, Tonne
Jayanthipuram Limestone Mine (North Band)	20,00,000	634000
Jayanthipuram Limestone Mine (South Band)	5,00,000	197000
Ravirala Limestone Mine	12,00,000	536000
Ramco Budawada Limestone Mine	11,00,000	4333*

\* 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.
- 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:

- PM<sub>10</sub>
- PM<sub>2.5</sub>
- SO<sub>2</sub>
- NO<sub>x</sub>

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 2015-16 is enclosed in Annexure - III. Compiled data on core zone air quality monitoring for four mining leases carried out in the financial year 2015-16 is also enclosed as Annexure – III.

### **WATER:**

#### **Water Requirement:**

Total water requirement for Captive Mines is 246.0 m<sup>3</sup>/day in the financial year 2015-16. Total water requirement for Cement Plant, Thermal Power Plant, Captive Mines and for Domestic Purposes is 4246.44 m<sup>3</sup>/day in the financial year 2015-16. For which, State Ground Water Department accorded permission for water withdrawal @ 7000 m<sup>3</sup>/day.

#### **Water Level Data & Water Quality Data:**

Water levels are regularly monitored through piezometers at four 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 2015-16 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 2015-16 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 effluents oil & grease trap outlet water carried out in the financial year 2015-16 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 2016. 3 Nos. of rain water harvesting structures are made to recharge the ground water in the plant by March 2016. 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.

It is proposed to construct a earthen check dam at Ravirala Limestone Mine in the financial year 2016-17 to collect rain water for ground water recharging.

#### **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 acre
- 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 2015-16 are enclosed as Annexure - X.

#### **NOISE & VIBRATION LEVELS:**

Noise level data collected in the mines areas in the financial year 2015-16 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 2015-16 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 2015 is enclosed as Annexure - XIII.

## HAZARDOUS WASTE HANDLING:

Copy of Form – 4 submitting quantities of various hazardous wastes available by 31<sup>st</sup> March 2016 along with consumption / dispatch of the same in the financial year 2015-16 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 2015-16 is as follows:

Name of the Mine	Solid Waste, Tonne		
	Generated	Used in reclamation	Dumped in dumps
Jayanthipuram Limestone Mine (North Band)	492599	492599	0
Jayanthipuram Limestone Mine (South Band)	99472	0	99472
Ravirala Limestone Mine	136224	136224	0
Ramco Budawada Limestone Mine	0	0	0

- 11.47 ha and 0.83 ha is reclaimed by the end of financial year 2015-16 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 31.03.2016 are as follows:

Name of the Mine	Area specified in EC order	Developed up to 31.03.2016
Jayanthipuram Limestone Mine (North Band)	62.39	50.69
Jayanthipuram Limestone Mine (South Band)	19.05	13.47
Ravirala Limestone Mine	3.19	4.81
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.
<b>Total</b>	<b>195.54 ha.</b>

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 39<sup>th</sup> EAC meeting of Non-coal Mining Committee, MoEF&CC on 28<sup>th</sup> 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 year 2014-15 & 2015-16 are Rs. 54.18 lakh & Rs. 42.40 lakh respectively. The details are enclosed as Annexure - XV. Some of the major initiatives taken in the financial year 2015-16 are as follows:

- Medical camps conducted in nearby villages. 36 Nos. of medical camps conducted in nearby villages in the year 2015-16 and medicines are being distributed at free of cost.
- Annadanam programmes on the eve of Founder's Day.
- Rebate is given for School Fee for the Children of Contract Workmen, studying at SSVR Mandir School.
- Dust bins provided for the nearby villages, as part of Swatch Bharat.
- Tri-cycles provided for garbage disposal in the villages, as part of Swatch Bharat.
- Water filter systems for Jayanthipuram village and Dharmavarapupadu Thanda village for safe drinking water.
- Up-gradation of fire station (greenbelt development) at Jaggaiahpet.
- Contributed for construction of compound wall and toilets at Ravirala Anganwadi School.
- Contributed for laying of hand railing near Anjaneya Temple at Ravirala.
- Construction of drain at Dwarakapuri colony at Jayanthipuram village.
- Financial support towards laying of roads in Own Your House colony at Chillakallu village.
- Engagement of JCB for leveling and dozing work for Ashramam and Goshala near Vedadri temple.
- Water supply for agriculture fields at Jayanthipuram Village.

## **EXPENDITURE INCURRED FOR ENVIRONMENT PROTECTION:**

- Various expenditures incurred for environment protection measures (other than socio-economic measures) for 4 mining leases (Jayanthipuram North Band Mine, Jayanthipuram South Band Mine, Ravirala Limestone Mine and Ramco Budawada Limestone Mine) are listed in Annexure - V.
- Recurring expenditure made during 2015-16 for four mining leases is Rs. 430.80 lakh. Cost of environment protection measures per tonne of limestone produced (from 4 mining leases) is Rs. 31.41 per Tonne in the financial year 2015-16 against Rs. 16.86/- per Tonne in the financial year 2014-15.
- Budget proposed for various environment protection measures for the financial year 2016-17 is listed in Annexure - V with a sum of Rs. 368.44 lakh.

## **CELEBRATION OF WORLD ENVIRONMENT DAY:**

- On the eve of World Environment Day – 5<sup>th</sup> June 2015, plantation activity conducted at plant premises, mines premises, colony premises and at surrounding areas.
- Distributed WED – 2015 batches (prepared by National Safety Council) to our employees and took Environmental Oath.