



  
**RASHTRIYA ISPAT NIGAM LIMITED**  
**VISAKHAPATNAM STEEL PLANT**



# Communication on Progress 2014-'15

COP - 2014 -'15



## 1. Businesses should support and respect the protection of internationally proclaimed human rights

### During the year 2014-'15:

RINL/VSP is committed to respect the protection of internationally proclaimed human rights like – Education, Housing, Drinking Water and Good Health. Following are the key areas where RINL-VSP CSR activities have been taken up:

#### ■ Education

An amount of ₹ **68.26 Million** has been spent on Education benefiting **13781** persons. Important activities during the year are:

- (a) **Free education to economically poor** students at Visakhapatnam & Mines areas and total beneficiaries are about 2000 students.
- (b) **Arunodaya Special School:** RINL is providing free education to 75 differently abled children and facilities like physio therapy, speech therapy, yoga, vocational training etc., in school campus located at Ukkunagaram. Vocational workshops in different courses like candles making, paper bags making, preparation of cloth washing powder, Floor cleaner (Phenyl), Making of washing powder, craft items like diyas etc., were organized for differently abled children (18 years and above) with the help of their parents which will enable these children to make themselves self-reliant in their daily life stream with the help of their family.
- (c) **'Saksham'** – Adult Literacy programs to increase literacy rate among adults, were organized (6 months program) in peripheral villages of VSP and tribal villages of Vizag district, through 'Pratham Education Foundation'. 625 adults were benefitted from this literacy program.
- (d) **School furniture** was provided to MPUP School at Ramannapalem and Govt. Junior College, Aganampudi of Vizag district., benefitting 425 students.
- (e) Program for providing computer education to the economically backward girl students in villages of Himachal Pradesh & Haryana has been taken up.

## ■ Health Care

An amount of ₹ **0.76 Million** has been spent on health related activities, benefiting a total number of **2735** persons. Important activities during the year are:

- (a) **'Nethra Jyothi'** - Organized 182 Eye Camps using 'Netrajyothi' Mobile Eye care Van (provided by RINL-VSP), through Visakha Eye Hospital Trust during the month in villages of Visakhapatnam, Vizianagaram & Srikakulam districts. During 2014-'15, total of 15,136 patients have been tested and 2731 cataract cases were referred for surgery. 1,144 cataract surgeries were done free of cost by Visakha Eye Hospital, Visakhapatnam.
- (b) **'Sanjeevan'** - 3nos. Cancer Detection Camps using 'Sanjeevan' (Mobile Cancer Detection Van provided by RINL-VSP) were organized through Lions Cancer Hospital at Rehabilitation colonies & Vizag. Total no. of 254 patients were screened and 10 positive cases were referred for further treatment in Lions Cancer Hospital at Visakhapatnam city.
- (c) A "Mega Medical Camp" at Z.P. High School premises, in association with Doctors of Medical Department of VSP, Lions Cancer Hospital, Visakha Eye Hospital, Sri Gurudeva Charitable Trust & Satya Sai Seva Samithi Aganampudi, which was inaugurated by Shri Rakesh Singh, IAS, Secretary, Ministry of Steel, GOI, In this Camp, various services like General Medicine, Pediatrics, Diabetics, Orthopedics, Ophthalmology, ENT, Cardiac, Dental, Gynecology, Dermatology etc. were extended. Around 1050 patients have attended the camp. Wheel chairs (10nos.), artificial limbs (40nos.) & tri-cycles (5nos.) were also distributed to poor & differently abled people.
- (d) Doctors of Visakha Steel General Hospital (VSGH) have done free cataract surgeries for 440 patients who are under BPL category from peripheral villages of VSP.
- (e) **'Swachh Bharat'**:
  - Campaign was started in RINL in Plant area, Ukkunagaram & Rehabilitation colonies including 11 schools in Ukkunagaram. Management, Officers, school children have participated in various cleaning programs.
  - To bring awareness on "Swachh Bharat" among children, competitions in Elocution, Essay writing & Painting were organized. About 900 students have participated & prizes distributed to 68 students on 14<sup>th</sup> Nov.'2014.
  - 'Swachh Bharat' program is being carried out in Departments inside & outside the Plant. During this year about 197 activities were carried out and about 4166 employees have participated.

## ■ People Care

To mitigate the hardships faced by the people, an amount of ₹ **7.92 Million** has been spent towards the following welfare measures, benefiting **29,188** persons. Important activities during the year are:

- (a) **Jan Shiksha** : A CSR initiative in the area of '**Empowerment**' of unemployed youth & women to become employable for their sustainable living. Training have been given through Jan Shikshan Sansthan (JSS) in courses like Dress making, Machine Embroidery, Hand Embroidery, Fabric Painting and Beauty therapy etc. covering a total no. of 361 women beneficiaries.
- (b) **Drinking water** was supplied to 4 Rehabilitation colonies i.e., Gangavaram, Pedagantyada, Vadlapudi & Aganampudi, for a period of 4 months in view of the summer. 36,000 litres of drinking water per day was supplied to each RH colony reaching to about 13,000 beneficiaries per day.
- (c) **Community Drinking water system** was installed at "Chepalapalem", a peripheral village near to VSP. Around 1000 people are benefitted with this system.
- (d) Installation of Drinking water plants under 'Sujala Pathakam' of AP State Govt. was taken up, in 23 habitations of 6 Mandals in the rural areas of Visakhapatnam.
- (e) A Workshop cum- Office Building for making artificial limbs was constructed and handed over to, Sri Gurudeva Charitable Trust, Mangalapalem, Vizianagaram district.

## ■ Peripheral Development

An amount of ₹ **4.71 Million** has been spent towards peripheral development, benefiting **27,000** persons. The major activities include:

- (a) Multi-purpose Halls were constructed at Pedagantyada & Gangavaram Rehabilitation colonies benefitting about 30,000 local people to celebrate their family/community functions.

## ■ Help during natural calamities

- (a) Financial support of ₹ **50.00 Million** was extended to CM's Relief Fund, AP, towards relief & restoration works being taken up in Hudhud cyclone affected areas of Andhra Pradesh.
- (b) Hudhud Cyclone Relief Measures by CSR Department:-
  - (i) Drinking Water was supplied in RH Colonies, Township & CISF Colony. Around 146 Kilo Litres of drinking water was provided to 20,000 cyclone victims.
  - (ii) "General Medical Camp" was organized in peripheral villages. Around 1380 Patients got benefitted by means of Eye Testing, ENT, ortho, skin and issue of General Medicines. This Camp was organized in association with Medical Department of VSP.
  - (iii) Essential commodities were distributed to 1775 victims of cyclone in the villages nearby VSP

- **Activities through Visteel Mahila Samithi (VMS)** – the women arm of RINL is executing several community development & societal support as part of CSR initiatives, on behalf of RINL. Some of the activities of VMS are:

(a) School furniture, Computers, Plates and Glasses for mid-day meal scheme, Play equipment, Sports items & tri-cycle were distributed to children in Govt. schools in peripheral villages of VSP and Govt. Junior College, Aganampudi, through Visteel Mahila Samithi, benefitting 1309 children

**Future Plans:**

1. To continue the above programs in future also
2. Construction of Multipurpose Halls in Rehabilitation Colonies
3. To take up Adult literacy programs
6. To implement more solar initiatives

**2. And make sure that they are not complicit in human rights abuses**

To ensure that the Company is not complicit in human rights abuses, following systems are followed:

- ⊕ As a principal employer, RINL ensures payment of wages, which is higher than the statutory minimum wages and also ensures compliance with various statutory provisions for contract workers.
- ⊕ RINL is accredited for all three system standards i.e. ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 which envisage internal and external audits.
- ⊕ RINL is the first integrated steel plant in India to implement ISO 50001 standards for Energy Management system.
- ⊕ All contractors are regularly exhorted to comply with the Child Labour regulation and surprise checks are conducted to ensure compliance.

**Plans for the upcoming year**

To continue above systems & CSR activities.

### **3. Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining**

The concept of Collective Bargaining in VSP has proved that the industrial democracy is ensured in true letter and spirit and has set a win-win situation for both the Employer and the Employees in the industry. The collective bargaining approach has helped to enhance the production and productivity in RINL.

In RINL, there are 24 Registered Trade Unions functioning to take up the issues of the regular non-executive work force. To determine the majority union once in two years, the method of secret ballot is adopted in line with the Code of Discipline. The union which secures the highest number of votes would be declared as the majority union and accordingly recognition under the concept of Code of Discipline. This approach is implemented in VSP for a process of mutual appreciation of business interests and to resolve conflicts by way of consultation and conciliation and through a negotiated settlement. This upholds the freedom of association and paves the way for effective recognition of right to collective bargaining.

Workers' participation in Management is considered as a mechanism where workers have a say in the decision making. In RINL-VSP, the following committees are functioning and are covered under Quality Management System and has been certified by ISO.

1. Shop-Floor Cooperation Committees - 30 Nos
2. Shop-Floor Safety Committees - 32 Nos
3. CWC Committees (including Mines) - 09 Nos
4. Other Committees - 14 Nos

The above committees are constituted with equal participation of Recognised Union and Management.

**Outcome:** Mutual appreciation of the Employer and Employees interests, thereby facilitating harmonious industrial relation climate in the Organization. Conflict resolution is done through an approach of consultation and conciliation.

**Future Plans:** To monitor and sustain the above and take corrective measures whenever required.

#### **4. The elimination of all forms of forced and compulsory labour**

RINL, a Central Govt. public sector undertaking, has a "Recruitment policy" which is in alignment with the law of the land. In respect of labour engaged by contractors, the provisions laid down in Contract Labour Regulation and Abolition Act as well as other relevant labour statutes are followed. No form of forced and/or compulsory labour exists in the Company.

##### **Plans for the upcoming year**

RINL as a Model employer, constantly strives to ensure that all the relevant statutes pertaining to labour are implemented viz., Minimum wages, PF, ESI, Bonus etc.,

#### **5. The effective abolition of child labour**

In RINL, minimum age limit for recruitment is 18 years.

**Action taken:** All Advertisements and Employment Notifications indicate the minimum age limit as 18 years. Further, circulars are issued from time to time intimating all the contractors concerned not to employ child labour. Surprise checks are also conducted periodically.

**Outcome:** No child labour is recruited in VSP.

RINL/VSP as a model employer does not allow/permit the engagement of child labour and it will continue the existing policy.

#### **6. And the elimination of discrimination in respect of employment and occupation**

Equal pay for equal work irrespective of gender, caste, religion, age etc. RINL does not discriminate on any ground in matters of employment and occupation except that women are not employed after 7.00 PM and before 6.00 AM in terms of the Factories Act. Statutory requirements related to employment and occupations are fulfilled.



**Action taken:** All the employees during the service are extended equal pay for equal work.

**Outcome:** Scope for discrimination is eliminated.

RINL will continue the existing policy.

## 7. Businesses should support a precautionary approach to environmental challenges

**VSP's commitment:** It is reflected towards precautionary approach to environmental challenges in Company's Vision Statement as given below:

### Vision

To be a continuously growing world-class company

### We shall

- ⊕ Harness our growth potential and **sustain profitable growth**.
- ⊕ Deliver high quality and **cost competitive** products and be **the first choice of customers**
- ⊕ Create an inspiring **work environment** to unleash the creative energy of people.
- ⊕ Achieve excellence in enterprise management.
- ⊕ Be a **respected corporate citizen, ensure clean and green environment** and develop vibrant communities around us.

In order to translate its vision into practical application, it has formulated its policy, which provides the broad framework for implementation of policies that support a precautionary approach to environmental challenges.

### QUALITY, ENVIRONMENT AND OCCUPATIONAL HEALTH & SAFETY POLICY

We, at Visakhapatnam Steel Plant, are committed –

- ▶ to meet the needs and expectations of customers and other interested parties,
- ▶ to prevent incidents of injury and ill health of persons at workplace
- ▶ to optimally utilise the various forms of energy; and
- ▶ to minimise impact of steelmaking operations on climate change & environmental pollution

To accomplish this, we will

- 📄 Supply quality goods and services to customers' delight.
- 📄 Document, implement, maintain & periodically review the QSHE management systems including the policy, objectives and targets and continually improve the effectiveness and performance of QSHE MS.
- 📄 Use natural resources and energy efficiently and effectively with concern for environment.



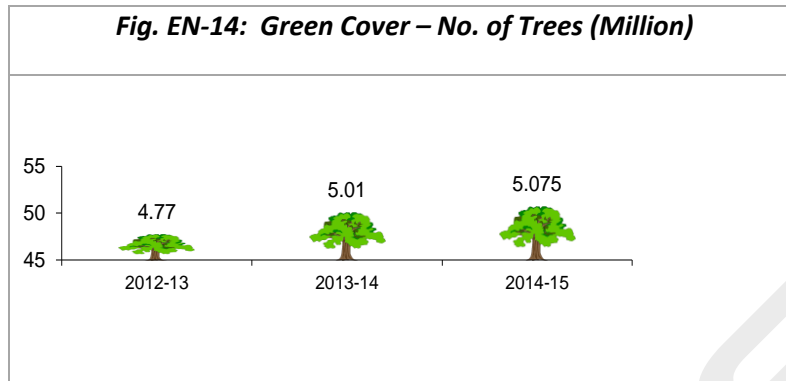
- Harness renewable and alternative energy sources to comply with national policies & energy security
- Comply with all relevant legal and other requirements applicable to products, activities, services and processes in respect of Quality, Safety, Occupational health, & Environment & energy aspects.
- Support the purchase of safe, environment friendly and energy efficient products as well as services and also design for energy performance for continual improvement
- Encourage involvement & participation of employees in innovative and developmental activities.
- Maintain high-level of Quality, safety, Occupational health, Environment and Energy consciousness amongst employees and contract workers by imparting education, training and awareness.
- Ensure to make the policy available to public and communicate to all concerned for making them aware of their individual obligations towards QSHE MS.

This policy is communicated to all the persons working under our control and is made available to interested parties on request.

**Action Taken:**

The following precautionary approach is adopted at VSP:

- a. Environment Management at Vizag Steel commenced at the design-board-stage when its planners and designers planned for providing extensive environmental facilities both during the Stage I and Stage II of the plant.  
During Stage I, a massive investment of about ₹ 4680 Million has been made to provide a wide array of pollution control equipment to contain dust emissions and for treatment of waste water and effluents.  
During Stage II expansion from 4.0 Million Ton Hot Metal to 6.5 Million Ton of Hot Metal, care is taken to incorporate latest technologies and facilities in the expansion units. A number of new features aimed at environmental improvement in the areas of Air Pollution, Water Systems, Energy efficiency and Waste Management are integrated in the expansion units by investing an amount of ₹ 12830 Million. In addition to that ₹ 5219.88 Million were spent towards the environmental improvement projects.  
An annual expenditure of ₹ 3250 Million (as per the year 2013-14) is incurred on the operation and maintenance of the pollution control equipment.
- b. RINL's philosophy of managing operations in harmony with nature has its beginning in the motto of 'one tree for every one ton of steel capacity', which has been followed meticulously since inception. Out of the total land bank of 8,227 Ha, 3600 Ha has been identified for afforestation. Cumulative trend of tree plantation is shown at Fig EN-14.



**'Green Visakha' project:** Under 'Green Visakha' project, Raising and maintenance of Plantations for planting of 43,000 Block plantation near Parawada on hills was completed.

- c. In order to minimize resource use and reduce pollution loads, VSP is the **first** integrated steel plant in India to have adopted the most modern "**clean technologies**" as follows:
- (i) Coke dry cooling plant for recovery of waste heat from red-hot coke (pushed out from the coke ovens). This is used to generate power (2 x 7.5 MW) in back pressure turbines
  - (ii) Operating blast furnaces at high top pressure (2.1 kg/cm<sup>2</sup>) and expanding the BF gas in Gas Expansion Turbine Stations to generate power (2 x 12 MW + 1 x 14 MW)
  - (iii) Evaporative cooling in the skids of Mills (LMMM & MMSM) to recover the waste heat to generate process steam (13 ata).
  - (iv) Recovery of L.D. gas during "blowing" and using it as a fuel.
  - (v) Coke Dry Quenching for CDCP-4 using the waste heat to generate 14 MW power.
  - (vi) Waste Heat Recovery from Sinter (NEDO) bed coolers to generate 20.6 MW.
  - (vii) RINL, the Corporate entity of Vizag Steel crossed another milestone by launching a novel project to generate a " completely pollution free 120 MW power with 100% Blast Furnace gas and Coke Oven gas ", the first of its kind in Indian Steel Industry

d. To prevent air, water and land pollution, VSP has provided pollution control equipment as detailed below:

**Air Pollution Control: Dust Extraction Systems:**

Department	Cyclone (dry)	Scrubber (wet)	ESP (dry)	Bag filter	Total	No. of Chimneys & Height (mtr)
C&CCD	-	28	-	1	29	3(120m)
RMHP	8	-	-	16+1*	25	
TPP	-	-	5	3	8	3flues (180.5m)
SMS	-	-	2(CVS)	3	5	1 (80m)
BF	-	-	4(BHS) 4(CHES)	4	12	2(80m) 2(100m)
CRMP	-	-	-	13	13	4(52m)
ES&F	-	-	-	4	4	
SP	-	34	4(ACP) 4(GCP)	1	43	2(120m)
WRM	-	-	-	-	-	1(45m)
LMMM	-	-	-	-	-	1(87m), 1(40m)
MMSM	-	-	-	-	-	1(80m)
<b>Grand Total</b>	<b>8</b>	<b>62</b>	<b>23</b>	<b>46</b>	<b>139</b>	<b>20</b>

**\* DRY-FOG SYSTEM.**

In addition to above, the following DE systems & Dust Suppression Systems (DSS) are installed (Stage -2) at various locations to take care of dust generation in expansion of 6.3Mt Stage.

Deptt.	ESP (dry)	Bag filter	Dry Fog Systems	Total
RMHP	-	-	8	8
CRMP	-	4	-	4
SMS-2	2	4	-	6
Blast Furnace	2	-	2	4
Sinter Plant	2	5	5	12
TPP	1	-	-	1
<b>G. Total</b>	<b>7</b>	<b>13</b>	<b>15</b>	<b>35</b>

### Effluent treatment / recycling and waste water treatment plants

Elaborate water recycling systems, are in operation at VSP to maximize recycling of water being used in the processes. In addition to the above state- of- the- art waste water treatment systems and effluent treatment systems are in place to treat contaminated water. 26 such systems are available at VSP as given below:

S.No.	System	No.
1.	Mechanical Biological & Chemical Treatment Plant (120m <sup>3</sup> /hr.) in coal chemicals plant	1
2.	Effluent Treatment Plant (280 cu.m/hr)	1
3.	Sewage Treatment Plant (Township) (300cu.m/hr)	1
4.	Waste Water Treatment Plants(CCCD-1, SP-1, BF-3, SMS-3, MILLS-3)	11
5.	Spillage Recycling Systems (TDP, BDP, BRP, ASP, CPH, NAFC, CPU, TOS)	8
6.	Ash-pond	1
7.	Appikonda Waste Water Treatment Plant	1
8.	Balacheruvu Waste Water Treatment Plant	1
9.	Ultra Filtration Plant	1

Out of this 3 waste water treatment systems use Ultra filtration and Reverse Osmosis technology to treat water discharged from effluent treatment plants so that the water thus treated can be re-used as input water to various systems. Due to this initiative, large volumes of water was saved.

Valuable fuel-gases (BF gas, LD gas) are obtained in course of iron and steel making. These are cleaned and used in various departments for heating applications eg. kilns, reheating furnaces, TPP (power generation) etc.

S.No.	System	No.
1.	Converter gas cleaning plant & gas holder (2x80000NM <sup>3</sup> )	2
2.	BF gas cleaning plant (GCP) 3x364,000NM <sup>3</sup> /hr	3
3.	Coke dry cooling plant (Steam:52T/hr at 40ata)	4

e. The following waste management systems/practices are adopted in VSP to maximize waste utilization and thereby conserve natural resources:

- (i) Generation of solid BF slag as a waste has been prevented by design. Cast house granulation of the BF slag is done and the slag is sold to cement plants for substituting lime.
- (ii) Magnetic separators remove embedded iron/steel pieces from LD slag and then the slag is screened. The +30 to -50mm size is recycled in SMS & BF (as a substitute for lime) or it is used as ballast in railway tracks. The -8mm size is recycled in sinter plant as a substitute for lime.
- (iii) "Used oils" are reclaimed in the ORU (Oil reclamation unit) and it is then used for lubrication purpose in non-critical areas. The resultant oil sludge and waste oil are sold to parties duly registered with the Ministry of Environment & Forests.
- (iv) All hazardous wastes like tar & oil sludge, MBC activated sludge, benzol sludge, tar acids etc. generated in coke chemicals plant are charged into coke oven batteries along with the 'charge coal'.
- (v) All dust removed by DE systems is unloaded from the hoppers of bag-filters / ESPs into open / closed dumpers and is unloaded in the receiving bins of sinter plant for recycling in sinter-making.
- (vi) The mills scales collected from water treatment plants in rolling mills are loaded by grab-buckets into wagons and unloaded in the receiving bins of sinter plant for recycling.
- (vii) Wet sludge from other WTPs are first sun-dried and then loaded by pay-loaders into dumpers and sent to receiving bins in sinter plant for recycling.
- (viii) Steel scrap (cut ends) are collected from individual shops by dumpers & sent to SMS scrap yard for charging into the LD converters by cranes.
- (ix) Lime dust from CRMP is sent by closed dumper to Briquetting Plant for making briquettes which are then sent by belt conveyor to SMS for steel-making.
- (x) Some of the lime dust is also sold to external parties. The dry dust is packed in bags and sent out in Lorries.
- (xi) Coke breeze from batteries is sent through conveyors to S.P. for recycling.
- (xii) Used Refractory bricks are utilized for making ramming mass and for carrying out repairs of LD converter and for relining the emergency containers in SMS.

**Out comes:**

a. **VSP enjoys an excellent ambient air quality** because of the massive afforestation and wide array of pollution control equipment (174nos.) provided. All the ambient air quality parameters (RSPM, SPM, SO<sub>2</sub> and NO<sub>x</sub>) are well below the norms. The most perceptible impact is a 3-4°C drop in ambient temperature in comparison to Visakhapatnam city.

**b. Waste Management**

One of the major areas identified for reducing consumption of raw materials thereby ensuring sustainable development as well as for effecting cost reduction is the utilization of various types of wastes generated inside the steel plant. Hence, a major thrust is given for maximizing the sale/recycling of various types of wastes generated in course of steel production.

**c. Effluent Quality**

All effluent parameters are within norms.

**d. Battery Emissions**

Fugitive emissions in coke oven batteries-1, 2, 3 are monitored for PLD (percent leaking doors), PLL (percent leaking lids) and PLO (percent leaking off takes). All emissions are well below the norms.

**Plans for the upcoming year:**

- a. Networking of all Continuous Stack Emission Monitoring Systems & Continuous Effluent Monitoring Systems to central data acquisition
- b. Scientific disposal of accumulated miscellaneous hazardous waste such as E-waste, oil soaked cotton, asbestos ropes etc.

## **8. Undertake initiatives to promote greater environmental responsibility**

### **Commitment/Policies:**

VSP is the first integrated steel plant in the country to be certified to all the 4 international standards viz. ISO 9001, 14001, OHSAS 18001, and ISO 50001. Environmental Management System ISO 14001 is implemented throughout the plant covering 47 no. departments. To ensure that "Continual Improvement" is propagated through EMS a number of Environmental Management Programmes (EMPs) are taken up every year. EMP's are focused in the areas of reduction of resource consumption, reduction in use of ODS, usages of waste, improvement of work-zone environment, elimination of Hazardous material use etc. About 77 nos of EMPs were taken up by different departments during the year 2014-15.

As part of this system, VSP has promoted greater environmental responsibility by:

- i. Detailing the scope of its activities in all respects, evaluating the environmental impacts and aspects and providing necessary measures to mitigate the environmental impacts to the minimum.
- ii. Incorporating all legal and other requirements applicable to VSP and developing a mechanism to periodically review the compliance status and take necessary corrective action, whenever deviations are observed
- iii. Agreeing to communicate its "significant aspects" to external parties thro' an "Annual Report" each year
- iv. Providing training to all its contractors' workers (before starting any work) and giving them a copy of the "Policy on Safety, Health & Environment" in 3 languages
- v. Stipulating the essential environmental requirements in the "General Conditions of Contract" for compliance by all suppliers of equipment / services to VSP

### **Action Taken:**

In order to promulgate the spirit of 'Continual Improvement' in environmental performance, a no of Environment Management Programs (EMPs) are taken up in various areas. The various EMPs taken up at VSP for 2014-15 are as given below:



Sl.No	Area of Environmental Improvement	No of EMPs
1	Reduction of Ozone Depleting Substances	2
2	Air Pollution Control	4
3	Water conservation and quality	2
4	Hazardous Waste Management	6
5	Resource Conservation	19
6	Energy Conservation	7
7	Environmental Monitoring	2
8	Waste Management	13
9	Afforestation and garden development	5
10	Training on environment	5
11	Noise reduction	1
12	Environment Management	9
13	E-waste handling	2

## 9. And encourage the development and diffusion of environmentally friendly technologies

### Action Taken:

In order to consistently diffuse environmentally friendly technologies and practices a no of environmental projects have been implemented at VSP, as given below:

Year	Sl.No.	Project
2004-05	1	Recirculation of sewage water by ultra filtration
	2	High temp. membrane bag filters in CRMP : FK - 5
2005-06	1	Dry fog dust suppression in RG Building / RMHP
2006-07	1	3 nos. continuous ambient air monitoring stations in side VSP
	2	Dry fly ash handling, storage and delivery system
	3	Developing a new Scrap Yard for miscellaneous wastes: e-wastes
	4	Electronic controllers in ESPs of TPP boilers no.3&4
	5	Rapid marine EIA by NIO
2007-08	1	Continuous on-line stack monitoring systems (Phase-I--10 nos.)
2008-09	1	Up-gradation of the PC Lab
	2	1 no. continuous ambient air monitoring station outside VSP
	3	Continuous on-line stack monitoring systems (Phase-II-- 10 nos.)
	4	"Dry fog" dust suppression system in BHS/BF
	5	Replacement of compressors working on 'ODS' with non-ODS / CWP – Chillers
2009-10	1	High temp. membrane bag filters in CRMP1,2,3,4(kilns 1,2&3 are completed)
	2	Electronic controllers in ESPs of TPP boilers no.1,2&5
	3	Nitrification – de-nitrification of MBC effluents for control of ammonical nitrogen
	4	Replacement of compressors working on 'ODS' with non-ODS / CWP – Chillers
2010-11	1.	Replacement 'ODS' with non-ODS refrigeration units of ASP
2011-12	1.	Coke dry quenching for CDCP 4 using the waste heat to generate 14 MW power
	2.	Appikonda waste water treatment plant
2013-14	1	Waste Heat Recovery from Sinter (NEDO project) bed coolers to generate 20.6MW power
	2	Balacheruvu Waste Water Treatment Plant
2014-15	1	Revamping & up-gradation of ESPs of BF -1

**Out comes:**

The outcomes of these efforts have been:

- i) Drastic reduction in consumption of Ozone Depleting Substances
- ii) Continuous reduction in water consumption over the years
- iii) Improvement of work zone environment in Raw Material Handling Plant
- iv) Reduction in emissions
- v) Proper management of hazardous wastes
- vi) Up gradation of facilities for environmental monitoring and analysis

**On-going Projects:**

Sl.No	Project
1	Pulverised coal dust injection in BF – 1, 2
2	Zero water discharge scheme which saves 5 MGD water per year
4	Dry Fly Ash handling, storage & delivery system for boiler 2,3,4 & 5
5	Revamping & up-gradation of ESPs of SP – 1 and BF- 2
6	Provision of Dog Houses in 3 converters of SMS-1
7	Rain water harvesting schemes

**10. Businesses should work against all forms of corruption, including extortion and bribery**

**Commitment/Policies**

External vigilance is the nucleus of RINL Vigilance Policy 1997, to achieve excellence by developing an international image of RINL as a clean, transparent, continuously learning and growing organization and to convert vigilance functions as profit generating centres and thus contribute for the improvement of efficiency, productivity and profitability of RINL.

**Action Taken:**

- 1. Efforts and Endeavors:** Continued efforts have been made by Vigilance Department to promote Transparency, Ethics and Integrity in RINL through special focus on Preventive Vigilance, by conducting system studies on the procedures being followed in the company, intensive examination of Works Contracts and Purchase Orders, Perusal of Audit paras and Internal Audit reports, identification of Sensitive posts, conducting Surveillance, Surprise checks, random Scrutiny of bills etc. The observations/deviations and suggestions for improvement have been communicated to the concerned along with appropriate recommendations. Besides, attention is also given for creating awareness through publication of Newsletters and Brochures, to share information on relevant topics amongst the employees and other Stake holders. Assistance has been provided to the concerned in processing of disciplinary cases emanating from vigilance recommendations. The department has been instrumental in identifying new areas where potential of Information Technology can be leveraged to improve transparency and fairness.

Apart from the above, 23 (twenty three) sessions were conducted to spread 'Vigilance Awareness' among the employees and school children. Out of them, 11 (eleven) sessions were conducted on 'Preventive Vigilance' for total 442 employees of various levels from JO to AGM. A workshop to devise "Transparency Index" was held in Management Development Center for 52 senior level officers of RINL. 12 (twelve) sessions on 'Ethics & moral values' were conducted for around 1653 school children belonging to various schools so as to inculcate moral behavior in the young minds.
- 2. Vigilance Campaigns:** Vigilance Awareness Week was observed from 27<sup>th</sup> October to 1<sup>st</sup> November, 2014 with the theme "Combating Corruption- Technology as an enabler". Publicity to the theme was afforded through display of hoardings, banners and posters at selected locations, intranet & telephone network, issue of circulars and bringing out a brochure etc. In conformity to the theme, several programmes designed to create awareness, were organized involving the participation of school children, employees and their dependents and other stake holders. Notable amongst them are inter school skit and elocution competition for children, slogan competition for employees and their dependents and Cultural Programmes. The week-long programme concluded with the Valedictory Function held on 01/11/2014 which was attended and addressed by the Chief Guest, Smt. Deepa B Dasgupta, IRS, Chief Commissioner of Customs, Central Excise and Service Tax, Visakhapatnam Zone.
- 3. Integrity Pact:** The extent of implementation of Integrity Pact during the year was to the tune of 94 % of total value of Tenders floated. Two reviews of the progress of implementation of IP were held by Independent External Monitors along with senior management of RINL.

### **Outcome & Impact of our Vigilance Initiatives**

1. Vigilance activities during the year have resulted in significant savings to the company. Further, the system improvements suggested are expected to give substantial recurring benefits in future also.
2. Vigilance initiatives have improved focus on transparency in the business processes, leading to higher level of confidence among the stakeholders about business ethics and integrity of the organization.
3. **Recognition:**
  - (a) The department had obtained 5S certification for Workplace Management. During the year 2014-15, Internal as well as External Surveillance Audit for ensuring successful implementation of work place management (5S) was successfully completed.
  - (b) "Corporate Vigilance Excellence Award 2014-15" [was bestowed on RINL for outstanding initiatives in Vigilance arena and four Officers received Vigilance Excellence Awards in individual category.
  - (c) "National Vigilance Excellence Award-2014" in individual category was also awarded to two Vigilance Officers of RINL for their meritorious services and contribution.

### **Plans for the upcoming year**

To continue vigorous awareness campaigns in various departments in addition to preventive and pro-active vigilance through enhanced surveillance and checks.