



RASHTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT



COP - 2013 -'14

Communication on Progress 2013-'14



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

During the year 2013-'14 :

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 ₹ **74.56 Millions** has been spent on Education benefiting **4908** persons. Important activities during the year are:

- (a) **Free education to economically poor** students through Visakha Vimala Vidyalaya Schools at Ukkunagaram & Balacheruvu, and total beneficiaries are about 1500 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.

Graduation Day: 28 students of Arunodaya Special school were awarded certificates on successful completion of special education, on the occasion of 'Graduation Day'.

"BAL MELO", a unique event was conducted to bring awareness among normal children and sensitize people about differently abled children and the training being given to them at Arunodaya Special School. Open invitation was given to all employees and their families to participate. Various competitions were conducted to special children and prizes were distributed to the winners.

- (c) **'Saksham'** – Adult Women Literacy programs to increase literacy rate among women, were organized (1year program) in peripheral villages of VSP and tribal villages of Vizag district, through 'Pratham Education Foundation'. 375 women were benefitted from this literacy program.

- (d) **School furniture** was provided to Tribal Welfare Ashram School at Sukuru (Hukumpeta Mandal of **Vizag Agency area**). 122nos. Desk cum benches (for **366 students**) and 4sets of Teachers' table & chair were distributed.

■ Health Care

An amount of ₹ **20.51 Millions** has been spent on health related activities, benefiting a total number of **35,075** persons. Important activities during the year are:

- (a) **'Nethra Jyothi'** - A Mobile Eye care van was provided to 'Visakha Eye Hospital Trust', Visakhapatnam. The mobile van is equipped with latest technologies for diagnosing various eye diseases. This will be run by doctors of 'Visakha Eye Hospital Trust'. This will serve the rural people in and around **Visakhapatnam, Vizianagaram and Srikakulam** districts. During 2013-'14, 24 camps were organized & 1786 people were tested. 425 cases have been referred for Visakha Eye Hospital Trust for further treatment.
- (a) **MOU with King George Govt. Hospital (KGH):** RINL-CSR has signed an MOU with King George Govt. Hospital (KGH) to extend financial support for development of infrastructure by establishing Multi Storied Hospital complex in KGH Premises along with other CPSEs. The poor & needy patients of North coastal Andhra as well as neighboring states will also be benefited by this CSR initiative.
- (b) **Awareness on HIV/AIDS – a Millennium Development Goal initiative – Mega Sign boards to bring** awareness on HIV/AIDS, were erected at 5 prominent locations in Visakhapatnam city.
- (c) **'Sanjeevan'** Cancer Detection Camps using 'Sanjeevan' Mobile cancer detection van (provided by RINL-VSP), were organized at Rehabilitation colonies & peripheral villages of VSP and rural areas of Visakhapatnam, Vizianagaram & Srikakulam districts. The camps were organized through "Lions Cancer Hospital". 1813 people were tested & 28 suspected cases were referred for further treatment in Lions Cancer Hospital at Visakhapatnam city.
- (d) **Additional facilities & renovation works at MORTUARY** : Additional facilities & renovation works like State of art Autopsy tables, Exhaust system for Decomposition room, Air conditioners for Autopsy hall etc., were procured at **MORTUARY, King George Hospital**, Visakhapatnam thus made it the first Air conditioned & well ventilated Mortuary in Andhra Pradesh.
- (e) Organized general medical camps in association with Satya Sai Seva Samithi and doctors from VSGH, in Chepalapalem village. Total no. of 590 patients have attended the medical camp, utilized the services like screening for Blood Sugar, detection of Malaria in fever cases, etc. Necessary medicines were also distributed.
- (f) Support was extended for Mega Medical camp at Garividi, Vizianagaram district. Around 15000 people from nearby villages benefitted from the camp including people from VSPs Captive mines at Garbham and Sarepalli.

- (g) Medical camps were organized at Sabbavaram & Pedabbaradu (near Chintapalli, tribal village in Vizag district). Camps were facilitated with various specialties like General Medicine, Pediatrics, Diabetics, Orthopedics, Ophthalmology, ENT, Cardiac, Dental, Gynecology, Dermatology, etc. Around 1950 patients have attended the camps.
- (h) Doctors of Visakha Steel General Hospital (VSGH) have done free cataract surgeries for 484 patients who are under BPL category from peripheral villages of VSP.

■ People Care

To mitigate the hardships faced by the people, an amount of ₹ **4.33 Millions** has been spent towards the following welfare measures, benefiting **18,100** 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 LMV driving, dress making, beautician courses, fabric painting etc. covering a total no. of 425 beneficiaries, of which 225 are women. Training program for unemployed youth to facilitate employment in security forces was organized at KN Palem (near Islampeta) village as a pilot program covering 27 youth.
- (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 thirsty summer. 36,000 litres of drinking water per day was supplied to each RH colony reaching to about 13,000 beneficiaries per day.

■ CSR in Mines area :

The Company has its captive mines for Limestone, Dolomite, Manganese & sand. Activities were taken up in our mines areas of Jaggayyapet, Madharam & Garbham. CSR activities in the Mines cover community & society living in and around the mines area.

- (a) **Vocational training** in courses like LMV driving, Tailoring, Hand Embroidery, Fabric Painting, Saree Rolling, Electrician course, Auto Driving, Power Sprayer Servicing were given to 610 unemployed youth & women at Jaggayyapet & Garbham villages.
- (b) Free education was provided to about 344 children of BPL families, at Jaggayyapeta and Madharam Mines areas through DAV Schools.

- **Other Mining areas :** The Company in its efforts to attain self-sufficiency in major raw material, has applied for acquiring iron ore mines in the states of Odisha, Jharkand, Chattisgarh, Rajasthan & Uttar Pradesh.

In rural areas of Uttar Pradesh, the Company has taken up CSR activities which include

- ▶ construction of 11 nos. additional class rooms
- ▶ laying of 2 nos. roads
- ▶ providing 100 nos. solar street lights
- ▶ support to Lifeline Express (Hospital on wheels) and

■ **Sports activities**

The company has supported the following sports events:

- ✓ 4th Vizag Steel Cup Football Tournament organized at Visakhapatnam. Around 24 local clubs of the district had participated in the event
- ✓ **Sports for Special children** was organized wherein about 400 special children from 10 schools have participated

■ **Peripheral Development**

An amount of ₹ **26 Million** has been spent towards peripheral development, benefiting **74,500** persons. The major activities include:

- (a) Construction of Multi-purpose Halls at Pedagantyada & Gangavaram Rehabilitation colonies has been taken up through CPWD.
- (b) Construction of Function Hall at Kanithi SC colony at Vadlapudi RH colony

■ **Help during natural calamities**

- (a) Financial assistance of ₹ 75 lakh was extended to 'Chief Ministers Flood Relief Fund, Uttarakhand'.
- (b) Financial assistance of ₹ 400 lakh was extended to 'Chief Ministers Flood Relief Fund, Odisha' for taking up relief measures in the flood affected areas in Odisha state.

■ **Activities through Visteel Mahila Samithi (VMS)** – the ladies 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) Providing items for Mid-day meals scheme, Sports items, books, uniforms etc., to students of various Govt. schools in RH colonies & peripheral villages
- (b) Providing Bedside tables, mattresses, bed sheets, chairs, alimarahs, toilet cleaning items were distributed to DePaul Bhavan and Hrudaya Shanti Charity Trust - Old age homes.
- (c) Providing Bunk beds, Almairahs, Play items, Grocery, nutrition food to HIV infected/affected at Desire Society, Gajuwaka. About 15 people are the beneficiaries.

Future Plans:

- 1. To continue the above programs in future also
- 2. Construction of Multipurpose Halls in Rehabilitation Colonies
- 3. Infrastructural facilities at St. Joseph Hospital for HIV/AIDs affected children at Prathipadu, AP
- 4. Providing community drinking water systems.
- 5. 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 more than the statutory minimum wages 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 by RINL 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 is to go in for a win-win situation for both the Employer and the Employees in the Industry and to bring in Production and Productivity related progress of the Industry.

In RINL VSP there are 24 Registered Trade Unions to take up the cause of the workers. To determine the majority union for a period of two years, the method of secret ballot is adopted. The union which secured highest number of votes would be declared as the majority union by extending recognition to it. 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 negotiated settlement. This upholds the freedom of association and paves the way for effective recognition of right to collective bargaining.

Presently Steel Plant Employees' Union (SPEU) registered No: 597/82 is the Recognized union in RINL VSP.

Further, Workers' participation in Management has been enshrined in the Company by introducing a number of Participative Fora in sharing of information and exchange of views as shown below:

1. Shop floor Cooperation Committees - 30 Nos
2. Shop floor Safety Committees - 30 Nos
3. CWC Committees - 9 Nos
4. Other Committees - 14 Nos

50% of the members of the above Committees are nominated by Recognized Union.

Outcome: Mutual appreciation of the employer and employees interests, thereby facilitating to establish harmonious industrial relation climate. 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/VSP, 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.

RINL/VSP 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 VSP, minimum age limit for recruitment is 18 years.

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.

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/VSP 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.

All the employees during the service are extended equal pay for equal work.

Scope for discrimination is eliminated.

RINL/VSP 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 injury and ill health of all persons working under our control, and
- ▶ to prevent pollution.

To accomplish this, we will

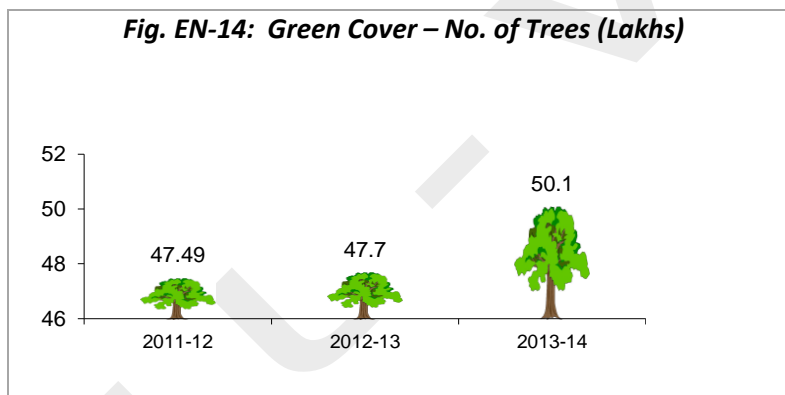
- ▣ Supply quality goods and services to customers' delight.
- ▣ Document, implement, maintain & periodically review the management systems including the policy, objectives and targets.
- ▣ Use natural resources and energy efficiently with concern for environment.
- ▣ Comply with all relevant legal, regulatory and other requirements applicable to products, activities and processes in respect of Quality, Environment, Occupational health & Safety and also ensure the same by contractors.
- ▣ Continually improve Quality, Environment, and Occupational health and safety performance.
- ▣ Encourage development and involvement of employees.
- ▣ Maintain high-level of Quality, Environment, Occupational health and safety consciousness amongst employees and contract workers by imparting education and training.

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. A massive investment of about ₹ 4680 Million has been made in the design stage itself to provide a wide array of pollution control equipment to contain dust emissions and for treatment of effluents. An annual expenditure of ₹ 3240 Million (approx.) for 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 ton of steel capacity', which has been followed meticulously since inception. Out of the total land bank of 8227 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 75000 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/cm²) and expanding the BF gas in Gas Expansion Turbine Stations to generate power (2 x 12 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.

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)
Grand Total	8	62	23	46	139	20

* DRY-FOG SYSTEM.

Effluent treatment / recycling and waste water treatment plants

About 80% of the process water is recycled and the remaining 20% is treated before recycling or discharged. The 20 major systems are given below:

S.No.	System	No.
1.	Mechanical Biological & Chemical Treatment Plant (120m ³ /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-2, SMS-2, MILLS-2)	8
5.	Spillage Recycling Systems (TDP, BDP, BRP, ASP, CPH, NAFC, CPU, TOS)	8
6.	Ash-pond	1

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 (80000NM ³)	1
2.	BF gas cleaning plant (GCP) 364,000NM ³ /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) L.D. slag is processed by M/s Ferro Scrap Nigam Ltd. Magnetic separators remove embedded iron/steel pieces 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) Refractory bricks wastes 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 (139nos.) provided. All the ambient air quality parameters (RSPM, SPM, SO₂,NOx) are well below the norms. The most perceptible impact is a 3-4°C drop in ambient temperature in comparison to Visakhapatnam city.

Excellent Ambient Air Quality! 2013-14

(Unit : Microgram/Ncum)

Location	Parameter	APPCB Norm	2011-12	2012-13	2013-14	Remarks
Main Gate	RSPM (PM-10)	100	62.9	61.0	56.5	ALL PARAMETERS ARE WITHIN THE NORMS
	SO ₂	80	6.1	10.0	7.5	
	NOX	80	7.1	4.5	8.6	
RSPM : Respirable Suspended Particulate Matter SO ₂ : Sulphur dioxide NOX : Oxides of Nitrogen						

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.

	2011-12	2012-13	2013-14
Total Solid Waste Generation(MT)	2.29	2.29	2.38
Specific Solid waste generation (t/tcs)	0.73	0.75	0.75
Total solid waste utilization (%)	88.75	98.12	99.81

c. Stack Emissions

All stack emissions are monitored as per the statutory frequency through continuous stack emission monitoring stations.

Location	Parameter	Norm	2011-12	Norm w.e.f. 12.06.12	2012-13	2013-14
Coke Oven Battery	SPM	50	42.3	50	42.6	39.9
Blast Furnace	SPM	115	82.0	50	73.4 #	55.4 #
Steel Melt Shop	SPM	115	55.6	50	52.0 #	39.0
LMMM	SPM	115	43.8	50	40.5	19.2
Wire Rod Mill	SPM	115	41.0	50	36.2	26.2
MMSM	SPM	115	41.0	50	40.9	26.8
Sinter Plant	SPM	115	80.6	50	84.6 \$	83.4 #
Thermal Power Plant - Boiler	SPM	115	93.5	50	92.8 \$	85.6 \$

#: Capita Repair Projects have been taken up for revamping to reduce the stack emissions below 50 mg/Nm³ at a cost of ₹ 1438 Million.

\$: Taken up with BHEL for modification/augmentation of ESP's to bring down the emissions below 50 mg/Nm³.

d. Effluent Quality

All effluent parameters are within norms.

Outfall – I (APPIKONDA) – 2013-'14

Unit : mg/L

PARAMETER	NORM	Average
pH	6.0 – 9.0	7.9
TSS	100	20.80
OIL & GREASE	10	6.10
IRON	1.00	0.40
COPPER	1.00	0.10

Outfall – II (GANGAVARAM) – 2013-'14

Unit : mg/L

PARAMETER	NORM	2013-'14
pH	6.0 – 9.0	7.70
TSS	100	95.80
OIL & GREASE	10	7.40
PHENOL	1.00	0.50
AMMONICAL N2	50.00	27.50

e. 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:

S.No	Location	PLD	PLL	PLO
	Norm	10%	1%	4%
1.	Battery - 1	2.53	0.70	2.66
2.	Battery - 2	1.80	0.81	1.54
3.	Battery - 3	3.33	0.40	0.78

Plans for the upcoming year:

- Networking of balance 2nos of Continuous Stack Emission Monitoring Systems for central data acquisition
- Checking Emission from DG sets
- 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 and only 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 75nos of EMPs were taken up by different departments during the year 2013-14.

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 2013-14 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

Sl.No	Area of Environmental Improvement	No of EMPs
9	Afforestation and garden development	5
10	Training on environment	5
11	Noise reduction	1
12	Environment Management	7
13	E-waste handling	2

Out comes:

The outcome has been improvement in most of the environmental performance indicators as given below	2011-12	2012-13	2013-14
Specific SPM load (kg/tcs)	0.58	0.60	0.58
Specific emission of CO ₂ (t/tcs)	2.61	2.65	2.66
Hazardous waste recycled (%)	100	100	100

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

Commitment/Policies:

VSP right from its inception was committed to a clean environment and hence is the **first** integrated steel plant in India to have adopted the most modern “**clean technologies**” as follows:

- 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
- Operating blast furnaces at high top pressure (2.1 kg/cm²) and expanding the BF gas in Gas Expansion Turbine Stations to generate power (2 x 12 MW)
- Evaporative cooling in the skids of Mills (LMMM & MMSM) to recover the waste heat to generate process steam (13 ata).
- Recovery of L.D. gas during “blowing” and using it as a fuel.
- Generation of power (1x14 MW) from CDCP-4

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:

List of Environment Projects Implemented			
Year	Sl.No.	Project	Cost (in ₹ Millions)
2004-05	1	Recirculation of sewage water by ultra filtration	47.50
	2	High temp. membrane bag filters in CRMP : FK - 5	17.90
		SubTotal	65.40
2005-06	1	Dry fog dust suppression in RG Building / RMHP	3.70
		Sub Total	3.70
2006-07	1	3 nos. continuous ambient air monitoring stations in side VSP	10.70
	2	Dry fly ash handling, storage and delivery system	27.60
	3	Developing a new Scrap Yard for miscellaneous wastes: e-wastes	1.78
	4	Electronic controllers in ESPs of TPP boilers no.3&4	7.60
	5	Rapid marine EIA by NIO	2.90
		Sub Total	50.58
2007-08	1	Continuous on-line stack monitoring systems (Phase-I--10 nos.)	20.50
		Sub Total	20.50
2008-09	1	Up-gradation of the PC Lab	16.20
	2	1 no. continuous ambient air monitoring station outside VSP	4.30
	3	Continuous on-line stack monitoring systems (Phase-II--10 nos.)	24.90
	4	"Dry fog" dust suppression system in BHS/BF	12.00
	5	Replacement of compressors working on 'ODS' with non-ODS / CWP – Chillers	65.00
		Sub Total	122.40
2009-10	1	High temp. membrane bag filters in CRMP1,2,3,4(kilns 1,2&3 are completed)	125.60
	2	Electronic controllers in ESPs of TPP boilers no.1,2&5	12.00
	3	Nitrification – denitrification of MBC effluents for control of ammonical nitrogen	460.00
	4	Replacement of compressors working on 'ODS' with non-ODS / CWP – Chillers	65.00
		Sub Total	662.60

List of Environment Projects Implemented			
Year	Sl.No.	Project	Cost (in ₹ Millions)
2010-11	1.	Replacement 'ODS' with non-ODS refrigeration units of ASP	59.90
2011-12	1.	Coke dry quenching for CDCP 4 using the waste heat to generate 14 MW power	850.00
	2.	Appikonda waste water treatment plant	247.80
		Sub Total	1097.80
		Completed projects – Total	2082.88

Out comes:

The outcomes of these efforts have been:

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

On-going Projects:

Sl.No	Project	Cost (in ₹ Millions)
1	Pulverised coal dust injection in BF – 1, 2	1336.70
2	Zero water discharge scheme which saves 5 MGD water per year	902.20
3	Waste Heat Recovery from Sinter(NEDO project) bed coolers to generate 20.6 MW Power	2447.00
4	Dry Fly Ash handling, storage & delivery system for boiler 2,3,4 & 5	102.30
5	Revamping & up-gradation of ESPs of SP – 1 and BF-1 & 2	2136.00
6	Provision of Dog Houses in 3 converters of SMS-1	752.30
7	Rain water harvesting schemes	130.40
	Sub Total	7806.90

GRAND TOTAL (since 2004 onwards)

9889.78

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

Commitment/Policies

1. 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, 18 (eighteen) sessions were conducted to spread 'Vigilance Awareness' among the employees and school children. Out of them, 07 (seven) sessions were conducted on 'Preventive Vigilance' for total 331 employees of various levels from JO to AGM. 03 (three) sessions on 'Preventive Vigilance' were conducted for employees of other Organizations covering 116 employees. 08 (eight) sessions on 'Ethics' were conducted for around 1270 school children belonging to 5 schools so as to inculcate moral behavior in the young minds.

2. **Vigilance Campaigns:** Vigilance Awareness Week was observed from 28th October to 2nd November, 2013 with the theme "Promoting Good Governance- Positive Contribution of Vigilance". Publicity to the theme was afforded through display of hoardings, banners and posters at select locations, intranet and 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 were Interschool Skit and Elocution competitions for children and Slogan Competition for employees and their

dependents. A guest lecture on “Good Governance and How to be Vigilant in Public Procurement” by Sri Girish Bhatnagar, General Manager (Retd.), East Central Railway was organized on 31.10.2013. The weeklong programme concluded with the valedictory function held on 01.11.2013 aptly addressed by Chief Guest, Sri S Vasudeva Rao, IPS, Chief Vigilance Officer, Dredging Corporation of India Ltd., Visakhapatnam.

3. **Integrity Pact:** The extent of implementation of Integrity Pact during the year was to the tune of 80.72% of total value of tenders floated. Three reviews of the progress of implementation of IP were held by Independent External Monitors along with senior management of RINL.

4. **Recognition:** The department had obtained 5S certification for Workplace Management. During the year 2013-14, internal as well as external surveillance audit for ensuring successful implementation of work place management (5S) was successfully completed.

“Corporate Vigilance Excellence Award 2013-14” was bestowed on Rashtriya Ispat Nigam Limited for its outstanding initiatives in vigilance and particularly for taking proactive and predictive vigilance measures from time to time during the golden jubilee celebrations of Institute of Public Enterprise at the conclave of Vigilance Officers held in Hyderabad on 6th March, 2014.

“National Vigilance Excellence Award” in individual category was also awarded to four Vigilance Officers of RINL for their meritorious services and contribution

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.

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.