

Business Responsibility Report



Section A: General Information about the Company

Disclosure item	Response
1 Corporate Identity Number (CIN) of the Company	L74999MH1994PLC077041
2 Name of the Company	JSW Energy Limited
3 Registered address	JSW Centre, Bandra Kurla Complex Bandra (East), Mumbai – 400 051
4 Website	www.jsw.in
5 Financial Year reported	2016-17
6 Sector(s) that the Company is engaged in (industrial activity code-wise) [including its subsidiaries]	1) Generation of Thermal Power 2) Generation of Hydro Power 3) Power Transmission 4) Power Trading NIC Code: 351 Electric Power Generation, Transmission and Distribution
7 List three key products / services that the Company manufactures / provides (as in balance sheet) [including its subsidiaries]	1. Power Generation (Thermal and Hydro) 2. Power Transmission 3. Power Trading
8 i. Number of International Locations (Provide details of major 5) [only its subsidiaries]	South Africa (mining [presently on hold]), Mauritius (two Holding Companies), UK (in process of winding up), British Virgin Islands (dissolved on April 04, 2017)
ii. Number of National Locations [including its subsidiaries]	JSW Energy Limited - Vijayanagar (Karnataka) - Ratnagiri (Maharashtra) Subsidiaries - Raj WestPower Limited - Barmer (Rajasthan) - Himachal Baspa Power Company Limited - Sholtu (Himachal Pradesh) - JSW Energy (Kutehr) Limited - Kutehr (Himachal Pradesh) - JSW Energy (Raigarh) Limited - Raigarh (Chattisgarh) - JSW Power Trading Company Limited - Delhi
9 Markets served by the Company – Local / State / National / International / [including its subsidiaries]	Maharashtra (MSEDCL), Karnataka (State DISCOMS), Himachal Pradesh (HPSEB), Haryana (HSEB), Rajasthan (State DISCOMS), UP (State DISCOMS), Andhra Pradesh (APSEB), Telangana (TPCC)

Section B: Financial Details of the Company [Standalone]

	Disclosure item	Response
1	Paid up Capital (₹)	1,640.05 crore
2	Total Turnover (₹)	4,369.52 crore
3	Total profit after taxes (₹)	194.75 crore
4	Total Spending on Corporate Social Responsibility (CSR) as percentage of profit after tax (%)	23.07 crore 12%
5	List of activities in which expenditure in 4 above has been incurred:	
	a. Improving Living Conditions	
	b. Promoting Agriculture and water shed	
	c. Promoting Social Development	
	d. Addressing social inequality	
	e. Addressing Environment Concerns	
	f. Preserving National Heritage	
	g. Promoting Sports Development	
	h. Promoting Swachh Bharat Mission	

Section C: Other Details

	Disclosure item	Response
1	Does the Company have any Subsidiary Company/ Companies?	Yes List of Subsidiaries : 1. Raj WestPower Limited. 2. Himachal Baspa Power Company Limited 3. JSW Power Trading Company Limited 4. Jaigad PowerTransco Limited 5. JSW Energy (Raigarh) Limited 6. JSW Energy (Kutehr) Limited 7. JSW Green Energy Limited 8. JSW Energy Mineral Mauritius Limited 9. JSW Energy (BVI) Limited
2	Do the Subsidiary Company/Companies participate in the BR Initiatives of the parent company? If yes, then indicate the number of such subsidiary company(s)	Yes. The subsidiary companies participate in the BR initiatives of the parent Company.
3	Do any other entity / entities (e.g. suppliers, distributors etc.) that the Company does business with, participate in the BR initiatives of the Company? If yes, then indicate the percentage of such entity / entities? [Less than 30%, 30-60%, More than 60%]	JSW Energy's value chain partners (e.g., suppliers and contractors) are encouraged to contribute to its CSR initiatives. However, with the expansive nature of its value chain, currently less than 30% of the entities partner in its BR initiatives.

Section D: BR Information**1. Details of Director / Directors responsible for BR**

Name	DIN	Telephone	Email ID
Mr. Nirmal Kumar Jain	00019442	022-42861000	jainnirmal1946@yahoo.co.in

Details of the BR head

Name	Designation	Telephone	Email ID
Mr. Jyoti Kumar Agarwal	CFO	022-42861000	jyotikumar.agarwal@jsw.in

2. Principle-wise (as per the National Voluntary Guidelines) BR Policy/policies (Reply in Y / N)

Disclosure item		Response								
Questions		P1	P2	P3	P4	P5	P6	P7	P8	P9
1	Do you have a policy / policies for:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Has the policy been formulated in consultation with relevant stakeholders?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Does the policy conform to any national / international standards? If yes, specify? (50 words)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A:	National Voluntary Guidelines on Social, Environmental and Economic Responsibilities of Business									
B:	ILO Convention on Human Rights									
C:	Report on Affirmative Action by CII									
D:	National Action Plan on Climate Change, National Environmental Policy									
E:	UN Sustainable Development Goals									
4	Has the policy been approved by the Board?	Yes, at the Board Meeting held on 23-March-2017								
	If yes, has it been signed by MD / owner / CEO / appropriate Board Director?	Yes, it has been signed by the Joint Managing Director & CEO								
5	Does the company have a specified committee of the Board / Director / Official to oversee the implementation of the policy?	Yes, Risk Committee of the Board is responsible to oversee the implementation								
6	Indicate the link for the policy to be viewed online?	http://www.jsw.in/sites/default/files/assets/downloads/energy/Corporate%20Governance%20and%20Regulatory%20Information/Policies/Responsible%20Business%20Policy.pdf								
7	Has the policy been formally communicated to all relevant internal and external stakeholders?	Y	The policy has been shared with all the business heads, their team members, members of the Board, and communicated through the Business Responsibility Report as well as Annual Report.							
8	Does the company have in-house structure to implement the policy / policies?	Y	The Chief Sustainability Officer of the JSW Group and the CFO of JSWEL lead all the initiatives by the Company under the policy							
9	Does the Company have a grievance redressal mechanism related to the policy / policies to address stakeholders' grievances related to the policy / policies?	Y	While institutional shareholders can write to subhra.das@jsw.in, non-institutional shareholders can write to jswel.investor@jsw.in about their queries and concerns. For the redressal of grievances of the other stakeholders, a process for roll out is under due consideration.							
10	Has the company carried out independent audit / evaluation of the working of this policy by an internal or external agency?		No	No	No	No	No	No	No	No
2a	If answer to S. No. 1 against any principle, is 'No', please explain why: (Tick up to 2 options)									
Questions		P1	P2	P3	P4	P5	P6	P7	P8	P9
1	The company has not understood the Principles					Not applicable				
2	The company is not at a stage where it finds itself in a position to formulate and implement the policies on specified principles					Not applicable				
3	The company does not have financial or manpower resources available for the task					Not applicable				
4	It is planned to be done within next 6 months					Not applicable				
5	It is planned to be done within the next 1 year					Not applicable				
6	Any other reason (please specify)					Not applicable				

3. Governance Related to BR

1	Indicate the frequency with which the Board of Directors, Committee of the Board or CEO to assess the BR performance of the Company. Within 3 months, 3-6 months, Annually, More than 1 year	The Risk Committee of the Board meets annually.
2	Does the Company publish a BR or a Sustainability Report? What is the hyperlink for viewing this report? How frequently it is published?	This is the Company's first Business Responsibility Report, for the FY 2016-17. The Report is available on the Company website. This will be a regular annual publication.

Principle 1: ETHICS, TRANSPARENCY AND ACCOUNTABILITY

1. Does the policy relating to ethics, bribery and corruption cover only the company? Yes/ No. Does it extend to the Group / Joint Ventures / Suppliers / Contractors / NGOs / Others?

The Company's Policy on ethics, bribery and corruption includes within its ambit all the employees, including those with the Subsidiary Companies at all levels and grades, as also the Directors. The efficacy and performance of the Company's Whistleblower Policy and Code of Ethics are reviewed by the Audit Committee of the Board. In some of the Subsidiaries, the Policy has been extended to cover vendors and contractors. It is intended to extend the Policy to cover other external key stake holders over a period of the next 3 years. The existing Code of Conduct for Board Members and senior management executives covers only the Company.

2. How many stakeholder complaints have been received in the past financial year and what percentage was satisfactorily resolved by the management? If so, provide details thereof, in about 50 words or so.

In FY 2016-17, 111 complaints were received from stakeholders. Of these, only 3.5% are under resolution; the rest have been resolved.

Principle 2: PRODUCTS AND SERVICES DESIGNED WITH ENVIRONMENTAL AND SOCIAL OPPORTUNITIES

List up to 3 of your products or services whose design has incorporated social or environmental concerns, risks and/or opportunities.

- Generation of Thermal Power
- Generation of Hydro Power
- Power Transmission

JSW Energy Ltd. believes in the efficient utilization of all available resources and aims to become a leading full-spectrum integrated power company with presence

across the power sector value chain. By managing efficient operations, enhancing social and economic benefits, minimizing environmental impact and employing cutting edge innovation, the Company has consolidated its place at the top of the ranks in India. The Ministry of Power, Govt. of India has recognized JSW Energy, Vijayanagar as the Best Operating Power Plant for eight consecutive years from FY 2007 to FY 2014. The power plants at Vijayanagar (Karnataka) and Ratnagiri (Maharashtra) are among the country's top five in environmental standards based on the survey conducted for thermal power plants in India by the Centre for Science & Environment (CSE), New Delhi. These recognitions reflect a consistent focus on optimal efficiency.

The Company utilises a life cycle based approach, and incorporates environmental and social concerns in the production of electricity, as well as in the selection of technology and equipment of higher efficiency. Further, risks and opportunities are identified at every stage of the operations. The major steps in the life cycle of our products and major activities are summarized below.

Thermal Power Plants:

- **Sourcing of raw material:** JSWEL procures primary fuel (viz., coal) as well as secondary fuels (e.g., heavy fuel oil and light diesel oil). Risk and opportunities are identified at the time of selection of coal while sourcing from multiple geographies. While selecting the source of coal, prime focus is on that type which has relatively less impact on the environment post combustion. On the other hand, Raj WestPower Limited (RWPL) uses lignite as a fuel source; lignite is a low grade coal that is currently sourced from captive mines of the joint venture, Barmer Lignite Mining Company Ltd.
- **Transportation of raw material:** Imported coal utilized at Vijayanagar and Ratnagiri is brought in by the sea route, and then transferred to the coal stockyards via rail at Vijayanagar and direct

coal conveying system from port at Ratnagiri. The lignite for RWPL comes in from the contiguous Kapurdi Mines via belt conveyor over a distance of 4 Km.

- **Production of electricity:** Risks and opportunities involved with thermal power production process are identified and the risks are mitigated at the design stage itself; equipment having maximum efficiency is selected, and standard operating procedures are implemented. All environment-affecting parameters associated with the production processes are continuously monitored and maintained within the statutory limits.
- **Delivery of the product to the customer:** Efforts are taken to supply electricity as per the requirement of the customer.

Hydro Power Plants:

Hydro power is produced by harnessing available "head" (or gradient) of the river basin through the non-consumptive use of water. It is an environment-friendly source of energy, and does not contribute any greenhouse gas (GHG) emission to the atmosphere. Hydro-power is a form of renewable energy which produces energy by non-consumptive use of water and hence, there is no reduction of resources.

During all stages of the product life cycle, aspects such as quality, occupational health and safety, and environment are considered important. The plants of JSWEL are certified to the following certified management systems:

- **Ratnagiri (1,200 MW):** ISO 14001-2004, OHSAS 18001-2007 and ISO 50001-2011.
- **Vijayanagar (860 MW):** ISO 50001-2011, ISO 9001-2015, ISO 14001-2015, OHSAS 18001-2015
- **RWPL (1,080 MW):** ISO 18001-2007, ISO 50001-2011
- **HBPCL (1,300 MW):** Implementation is under process

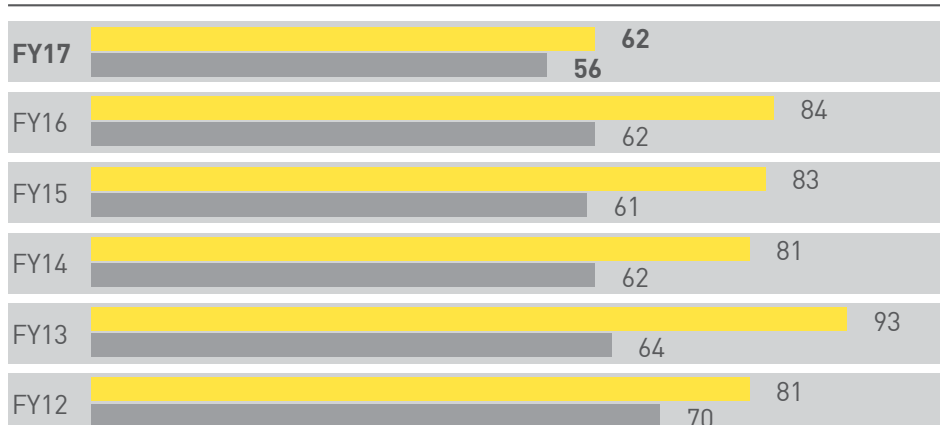
1. For each such product, provide the following details in respect of resource use (energy, water, raw material etc.) per unit of product(optional):

i) Reduction during sourcing / production / distribution achieved since the previous year throughout the value chain

Hydropower uses water as the resource material. Since it is non-consumptive in nature, water is released back to the river system after power generation. Hence there is no reduction in natural resources.

GENERATION:

JSW Energy, Standalone (PLF, %)




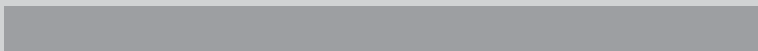
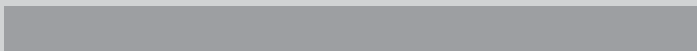
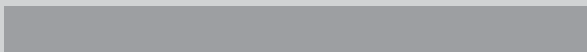
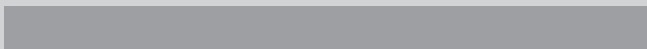
■ JSW Energy Standalone PLF (Vijayanagar & Ratnagiri)

■ All India private sector thermal power plant

Source: CEA

The plant load factor (PLF) during FY 2016 -17 is less due to partial load operation, reserve shut down and backing down.

JSW Energy Consolidated Net Generation (MUs)

FY17		21,631
FY16		22,064
FY15		20,307
FY14		17,061
FY13		18,780





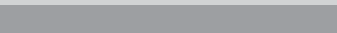
* Consolidated (Vijayanagar, Ratnagiri, RWPL, HPBCL)

* HPBCL Net generation w.e.f. 1st September, 2015 is included





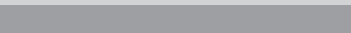
Net generation during FY 2016 -17 is less due to partial load operation, reserve shut down and backing down.

Performance Parameters: JSW Energy (Thermal - 3140 MW)


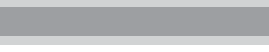



Sp. Coal Consumption in kg / kWh

FY17		0.59
FY16		0.56
FY15		0.59
FY14		0.48
FY13		0.55


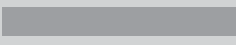



Sp. Oil Cons in ml / kWh

FY17		0.18
FY16		0.15
FY15		0.15
FY14		0.25
FY13		0.26

Sp. Raw Water Consumption in m³/MUs

FY17		1527
FY16		1494
FY15		1482
FY14		1493
FY13		1450

Sp. DM Water Consumption in m³/MUs

FY17		28
FY16		27
FY15		32
FY14		39
FY13		36

Note: Performance parameters are higher in FY 2016-17 due to partial load operation

ii). **Reduction during usage by consumers (energy, water) has been achieved since the previous year?**

- Not Applicable as JSW Energy is only into power generation and not into power distribution.

3. **Does the company have a mechanism to recycle products and waste? If yes what is the percentage of recycling of products and waste (separately as <5%, 5-10%, >10%). Also, provide details thereof, in about 50 words or so.**

- Hydro power produces energy by non consumptive use of water. It does not produce any waste or emissions.

The Company has practices and processes to recycle products and utilise its wastes. The details are furnished below:

Fly Ash Utilization:

Vijayanagar	Ratnagiri	RWPL
100 %	100 %	100 %
Cement Companies: 78.01 % Bunding of ash pond: 13.98 % Brick-making: 8 %	RMC (Ready-mix concrete): 69.4 % Making PPC (Portland Pozzolana cement): 24.8 % Bricks/Blocks: 5.8 %	Cement Companies & Bricks 85 % Mine filling: 15 %

Station wise details:

Ratnagiri:

Coal reject from the pulverizers are reused. The percentage of the reject coal with respect to total coal used during FY16-17 is 0.094%.

The used / waste oil comes under hazardous waste and is sent to approved vendors for being recycled.

STP is used for waste water disposal from plant. Waste food from the canteen is disposed in bio-gas plant. Gas generated from the bio-gas is used for cooking.

Vijayanagar:

The waste/used oil which comes under the hazardous waste category and e-waste is disposed of through authorized recyclers. Other wastes such as steel, wood are reused internally.

100% effluent is treated in RO (Reverse Osmosis) based ETP –Effluent Treatment Plant & recycled product water is used in CT (Cooling Tower) make up & reject water is used for plantation. Thus achieves Zero discharge of effluent water.

Raj WestPower Ltd:

The used oil / waste oil come under hazardous waste, and 100% waste oil is sent to approved vendors for recycling.

100% effluent is treated in Reverse Osmosis based Effluent Treatment Plant, and the recycled water is used as feed to the de-mineralized water plant / cooling tower, make –up, and reject water is used for plantation & ash / lignite spray etc. Thus achieves Zero discharge of effluent water.

Organic compost used for waste food disposal.

Waste Oil Generated and Recycled in KL (Thermal)

FY17	48
FY16	55
FY15	54
FY14	218
FY13	193

3. Does the company have procedures in place for sustainable sourcing (including transportation)?

i). If yes, what percentage of your inputs was sourced sustainably? Also, provide details thereof, in about 50 words or so.

JSW Energy, Vijayanagar and Ratnagiri Power Stations are based on imported coal and procedure for sustainable sourcing is in place. As the Ratnagiri plant is located on the coast, 100% imported coal comes via the sea route to the port at Ratnagiri, and the coal is then transported to the stock yard via covered conveyer belt. Imported coal for the Vijayanagar plant is also received by the sea route (100%) either at Goa or at Krishnapattanam, and then transported to the plant by rail (100%) in covered wagons.

Raj WestPower Limited (RWPL) utilises lignite that is currently sourced from captive mines of the joint venture, Barmer Lignite Mining Company Limited, which is located at a distance of 5 km, and transported through covered conveyor belt to the plant.

All vendors are registered only after they sign up on a commitment on environment and social parameters.

encourage our contractors to involve the local people. In certain cases, we even employ the local people directly and engage them in Operation and Maintenance (O&M) activities. We also encourage the contractors to procure the construction materials from local and small Vendors. We have been promoting and encouraging small suppliers, predominantly civil contractors and transporters which help them in securing work contracts at nearby locations. Apart from that we have arranged check dams in vicinity of villages for water availability during the summer and also the increase the crop production.

Local procurement is done for items available in local market to the extent possible. It is ensured that most of the manpower deployment is done from surrounding areas. As a part of CSR activities, local communities are trained and provided infrastructure for production of items (like beetle nut plates) which can be used by JSW. Skill development of nearby communities is also being carried out through Vocational Training Centre (VTC) to increase employability.

The Company organises training of farmers every year to improve the yield of crops, vegetables and fruits. The Company allows them to set up stalls at the Company canteen and in the township to sell the fruits and vegetables. The Company has started a rural BPO to increase the employment and earnings.

JSWEL has arranged for courses on fashion designing in the DIZ area for women; this entails minimum fees and provides stitching business to them. About 40 girls are being trained in fashion designing every year.

4. Has the company taken any steps to procure goods and services from local & small producers, including communities surrounding their place of work?

If yes, what steps have been taken to improve their capacity and capability of local and small vendors?

The Company involves the local people right from the stage of the construction of the plants and in certain cases we train them. This benefits them in getting employment in future. We also

The Company has given 3 year technical training course equivalent to diploma to 45 surrounding villages children (10th and 12th Pass) and absorbed them on Company's payroll as Employees in executive category.

The Company has given 3 month technical course (Basic electrical, basic Electronics, welding technology) to 36 surrounding villages persons and involved them as associated employees.

PRINCIPLE 3: BUSINESSES SHOULD PROMOTE THE WELL-BEING OF ALL EMPLOYEES

1.	Please indicate the Total number of employees.	966
2.	Please indicate the Total number of employees hired on temporary / contractual / casual basis.	761
3.	Please indicate the Number of permanent women employees.	27
4.	Please indicate the Number of permanent employees with disabilities	0
5.	Do you have an employee association that is recognized by management.	No
6.	What percentage of your permanent employees is members of this recognized employee association?	NA
7.	Please indicate the Number of complaints relating to child labour, forced labour, involuntary labour, sexual harassment in the last financial year and pending, as on the end of the financial year.	
a.	Child Labor/forced labor/involuntary labor	NIL
b.	Sexual harassment	NIL
c.	Discriminatory Employment	NIL
8.	What percentage of your under mentioned employees were given safety & skill up-gradation training in the last year?	
·	Permanent Employees	100%
·	Permanent Women Employees	100%
·	Casual/Temporary/Contractual Employees	100%
·	Employees with Disabilities	N/A

Principle 4: STAKEHOLDER ENGAGEMENT

- Has the company mapped its internal and external stakeholders? Yes/No

Yes. Stakeholders have been mapped and the key stakeholders are as follows:

- Government and regulatory authorities
- Investors and Shareholders
- Employees
- Customers
- Local Communities
- Suppliers
- Lenders
- NGOs

We have a defined set of processes for interacting and engaging with various stakeholders at various levels. We have a Committee of the Board to deal with the grievances and engage with the Investors and shareholders. Likewise, departments have been set up at Project locations for interacting and engaging with other stakeholders at various levels. The specialized teams ensure proper communication with various stakeholders internally and externally which helps the Company in understanding their concerns and respond to them appropriately

- Out of the above, has the company identified the disadvantaged, vulnerable & marginalized stakeholders.

Yes.

- Are there any special initiatives taken by the company to engage with the disadvantaged, vulnerable and marginalized stakeholders. If so, provide details thereof, in about 50 words or so. Pending

The Company has taken following initiatives to engage with the disadvantaged, vulnerable and marginalized stakeholders

- Three special-abled school identified and Company provides them material for physiotherapy exercise, development of physiotherapy room and sports material. Company organizes stalls to sell materials made by Special-abled children as well as organizes picnic for them every year.

- b) Company is helping 14 Aganwadi Kendras (170 students) in DIZ area by providing material like cupboards, chairs etc; doing thematic painting; training to AWC workers and also providing supplementary food.
- c) Company is helping 15 Primary schools (330 Students) in DIZ area by providing material like cupboards, chairs, education software, doing wall painting; providing supplementary food. Company has constructed one school building and compound wall for one school. Company has given safety first-aid training to all teachers and safety training to 330 students in DIZ area. Company organizes drawing competition for all school students.
- d) Company has started “ARMMAN” program “m-Mitra Phone Sakhi” programme for pregnant & lactating women of DIZ & IIZ area. Counselling is provided to them via mobile phones and are regularly advised to go for health check-up through government PHC of Khandala & Malgund. every Monday & Thursdays. They also give support information to all pregnant women.
- e) Company has done renovation of Khandala PHC Operation Theatre, Labour room and premises.

We have started fight against malnutrition under which we are giving spriluna as a supplement to the malnourished children and women. This program has been recognized by Government of India and Government of Karnataka and UNICEF.

We are engaging local villagers especially local women for housekeeping and gardening so they can earn their livelihood.

Principle 5: HUMAN RIGHTS

1. Does the policy of the company on human rights cover only the company or extend to the Group/ Joint Ventures/Suppliers/Contractors/NGOs/ Others?
It covers every one.

JSW Energy has formulated & circulated a policy on Prevention of Sexual Harassment at Workplace, Whistle Blower Policy etc. It has also created an email id: energycares@jsw.in for collecting the grievances and their handling.

Company has also extended strong support to associate manpower by covering them in Group Personal Accident & Group Mediclaim policy.

The Company does not have a stated human rights policy. However, most of the aspects are covered in the manner in which the company conducts its business as well as in its human resources practices. And we abide by all the rules and regulations related to human rights which is applicable in the area of our operations.

2. How many stakeholder complaints have been received in the past financial year and what percent was satisfactorily resolved by the management?

In FY 2016-17, 111 complaints were received from stakeholders. Of these, only 3.5% are under resolution; the rest have been resolved.

Principle 6: ENERGY AND ENVIRONMENT

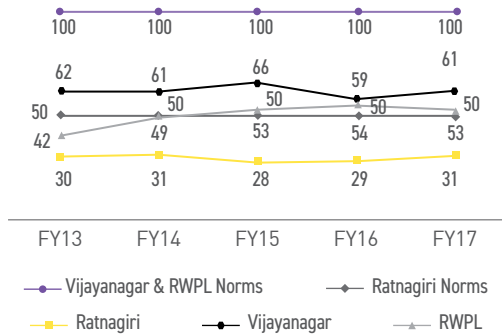
1. Does the policy related to Principle 6 cover only the company or extends to the Group/Joint Ventures/Suppliers/Contractors/NGOs/others.

The scope of JSW Energy's Integrated Management Policy covers the conservation and preservation of the environment, and the entire value chain. In other words, the policy is applicable to Joint Ventures, suppliers, contractors, NGOs, and others. All the plants maintain the generation of emissions and waste within the permissible limits.

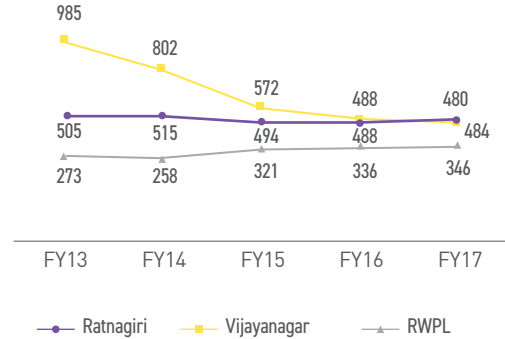
The Company has taken on the responsibility to address and tackle global long term challenges such as demographic change, climate change, and diminishing resources, in a socially, ecologically and economically responsible manner.

A few glimpses of the environmental performance trends are provided in the following charts.

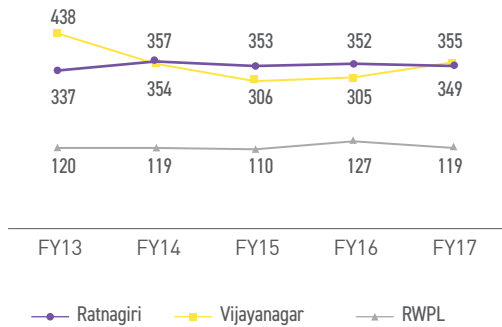
SPM in MG/NM3



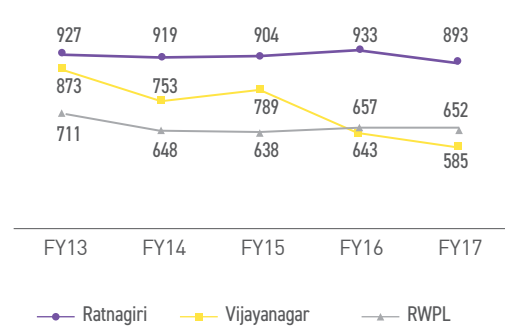
SOX in MG/NM3



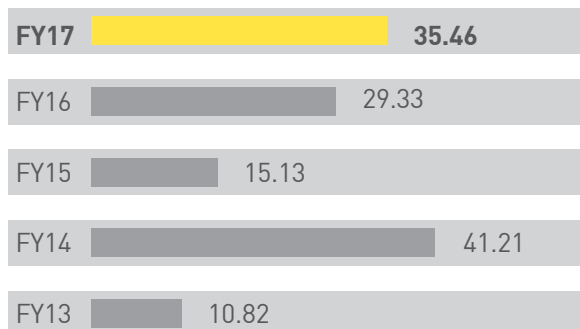
NOX in MG/NM3



Specific GHG Emission in MTCO2E/MU



JSWEL Energy Savings in MUs



Plantation (No. of Trees)



Energy saving is consisting of Vijayanagar, Ratnagiri and Raj West Power Ltd.

Cumulative plantation of 4,63,771 trees across all locations till March 2017 covering 401.8 Hectares

2. Does the company have strategies/ initiatives to address global environmental issues such as climate change, global warming, etc.? Y/N. If yes, please give hyperlink for webpage etc.

1. The projects address the environmental issues by the following activities:

- Afforestation/Plantation drives
Compensatory Afforestation for both the power stations have been carried out through Himachal Pradesh Forest Department. Over and above, plantation drives have been consistently taken up and so far about 17,000 new plantations (Robinia, Dreak, Popular, Neoja, Weeping Willow, Allanthus etc.) have been completed.
- Reclamation of muck dumping site
To avoid spillage of the muck in the river system, dumping sites have been protected with the retaining structures and reclaimed with plantation. So far about 1,08,000 plantations have been done on these dumping sites. Since power stations are already operational, no fresh generation of muck takes place.
- Reservoir Rim Treatment
Reservoir Rim Treatment is essential to ensure stability of hill slopes around the periphery of the reservoir. Based on the recommendations of IIT Roorkee, necessary protection measures for the vulnerable slopes have been provided along Sutluj and Baspa rivers.
- Catchment Area Treatment (CAT)
Catchment Area Treatment have been done with the objectives of sustainable economic development, conservation of soil, provision of employment to locals etc. As scope of CAT, primary areas of activities have been Soil Conservation, Plantation, Augmentation of the pasture land , Increasing production potential of the area etc..

JSW Energy has adopted an integrated approach to address global environmental issues such as

climate change, global warming etc. Initiatives taken to make water available for operation of plants and community use and to address natural resource management, promotion of green belt and livelihood generation. Available lands around the sites and open spaces within the premises are being covered into green belts, leading to reduction of dust, reduction in evaporation losses of water, covered coal shed in coal stock yard and improved micro-climate conditions.

Glimpse of actions taken during FY 17 are summarized below:

Ratnagiri:

- To increase the availability of ESP fields the spike type electrodes are replaced with spiral type to maintain better SPM level.
- Installation of VFD for CEP and ID fan for reduction in auxiliary power by 0.21 %.
- Cooling tower hot water duct lowering to reduce coal consumption.
- Mass plantation of 1,35,724 trees within plant and nearby areas covering 96 Hectares. (Types of trees: Mango, Cashew, Coconut, Kokam, Beetal nut, Fruit bearing etc.)

Vijayanagar:

- To increase the availability of ESP fields the spike type electrodes are replaced with spiral type to maintain better SPM level.
- Installation of VFD for CEP, ID and PA fan for reduction in auxiliary power by 0.10 %.
- Utilization of Waste gas of JSW steel in boiler to avoid fossil fuel and thereby reducing GHG emissions by 0.32 Kg/kWh.
- Mass plantation of 1,25,590 trees within plant and nearby areas covering 95.8 Hectares. (Types of trees: Tabubea Rosea, Cordia sebestina, Peltophorum, Kadamba, Jasmine, Bapathodes etc.)

RWPL:

- Energy conservation projects incorporated (refer point#5 in principle-6) in turn reduction of the usage of natural resources and emission.
- Mass plantation of 1,01,736 trees within plant and nearby areas covering 158 Hectares. (Types of trees: Amaltaas, Arjun, Date palm hybrid, Neem, Shisham, Semal, Sirish, Tecoma, Aloe vera, Casurina, Gulmohar, Olives, Babul etc.)

Hydro Power Stations:

Both the Projects Karcham Wangtoo HEP and Baspa-II HEP taken over by JSW Energy w.e.f. 1st September, 2015 of HBPCCL are Run-of-River Hydro Project. Being producer of clean energy, they do not have any adverse effect on climate change, global warming. These hydro projects also play a vital role during morning and evening peak power demand, thereby ensuring the energy security of the country.

3. Does the company identify and assess potential environmental risks? Y/N

Yes, potential environmental risks are identified by JSW Risk Management Department and discussed by the Members of Audit Committee on a quarterly basis. Once risk is identified, steps are taken to measure and mitigate risk through the Management System approach. Both the plants under HBPCCL have detailed Environment Impact Assessment (EIA) and Environment Management Plan (EMP) in place duly approved by the MoEF and have already been implemented. Disaster Management Plan (DMP) and Emergency Action Plan (EAP) have also been formulated.

Hydro Power Stations:

Yes, both the plants under HBPCCL have detailed Environment Impact Assessment (EIA) and Environment Management Plan (EMP) Plan, duly approved by the Ministry of Environment, Forest and Climate Change (MoEF & CC) and have already been implemented.

Disaster Management Plan (DMP) and Emergency Action Plan (EAP) have also been formulated and are in place.

4. Does the company have any project related to Clean Development Mechanism? If so, provide details thereof, in about 50 words or so. Also, if Yes, whether any environmental compliance report is filed?

Vijayanagar:

Yes, the company has Clean Development Mechanism (CDM) project registered with United Nations Framework Convention on Climate Change (UNFCCC) and Company has earned 5.17 million Certified Emission Reductions. Credits (CERs) were traded from 2x130MW (SBU1) Power Generation from waste gas of JSW Steel plants.

Hydro Power Stations:

Yes, 1000 MW Karcham Wangtoo (KWHEP) is registered as a Clean Development Mechanism (CDM) project by UNFCCC (United Nations Framework Convention on Climate Change).

As required Environmental compliance reports regarding E-Waste, Battery Waste, ASH, Hazardous Waste are being filed for the Hydro Stations. Environmental compliance Report are submitted to State Pollution Control Board (SPCB), Central Pollution Control Board (CPCB) and MoEF & CC (Ministry of Environment, Forest and Climate Change) on monthly, half yearly and annually for all the operating Stations as per time line.

5. Has the company undertaken any other initiatives on - clean technology, energy efficiency, renewable energy, etc. Y/N. If yes, please give hyperlink for web page etc.

The Company has undertaken the following initiatives on clean technology, energy efficiency and renewable energy. The salient points are summarized below:

Ratnagiri:

- VFD installation in Induced Draft Fans and Condensate Extraction pumps for energy saving.
- Lowering of Cooling water duct for improving Cooling Tower performance.
- Commissioning of OSI PI (Real Time Power Plant Performance Monitoring System)
- Commissioning of Online monitoring of auxiliary Consumption of Critical Equipment through EMS (Energy Monitoring System)
- Construction of check dams in surrounding villages for water conservation.

Vijayanagar:

- Replacement of Voith hydraulic coupling with Spacer Coupling shaft in Induced Draft Fans and VFD installation in Primary air fan motors for energy saving.

- Installation of energy efficient blades (10 Nos.) for Cooling Tower Performance improvement and energy saving.

- Replaced around 1600 Nos. of 70W HPSV lamps with 30W LED light fixture

RWPL:

- VFD installation in CCCW pumps (8Nos.), Dilution air fan of Lime plant (1 No.) for energy saving.
- Reduction in power consumption of CW pumps (2Nos.), by providing energy efficient coating on pump internals.
- Reduction in power consumption of plant compressors, by air optimization & arresting the leakages, resulted in total recurring saving of 350 KW.
- As per PAT cycle-1, 8858 Nos. of Escerts (Energy Saving Certificates) earned by improving Net Heat Rate.

Hydro Power Stations:

Hydro power generation itself is considered as renewable source of energy. Since both the projects under HBPCCL are run-of-river hydro scheme, with no large pondage and no emission of Green House Gases, both helps in the sustainable development under clean development mechanism.

Moreover, for energy efficiency following initiatives are being taken:

- Energy savings by replacement of non-efficient lighting system by energy efficient LED lightings in the "Generating Stations".
- To enhance the efficiency and emission performance of DG operating system by better & optimum utilization of the system.
- Carryout energy audits of the "Generating Units" at regular intervals to increase the efficiency of the plant equipment.

6. Are the Emissions/Waste generated by the company within the permissible limits given by CPCB/SPCB for the financial year being reported?

Thermal Power Stations:

Yes, JSW Energy is in compliance with the prescribed permissible limits as per Central Pollution Control Board (CPCB), State Pollution

Control Board (SPCB) for air emissions, effluent quality and discharge, solid and hazardous waste generation and disposal. Compliance reports/statements are submitted to SPCB as well as Regional Office, Ministry of Environment, Forest & Climate Change (MoEF & CC) regularly, as applicable. However, we are finalizing our action plan for the implementation of revised norms as prescribed by MoEF & CC.

Hydro Power Stations:

The plants neither produce any kind of gaseous emission, liquid, wastes or solid wastes compared to other conventional mode of energy generation.

However, the river water quality is analyzed by the State Pollution Control Board as a part of environmental monitoring. No adverse effect of plant or its generation on river water has been found or reported.

7. Number of show cause/ legal notices received from CPCB/SPCB which are pending (i.e. not resolved to satisfaction) as on end of Financial Year

Maharashtra Pollution Control Board (MPCB) has issued notice on 17th March, 2017 regarding implementation of Notification No GSR 02 (E) dated 02.01.2014 for installation of Ash sampler to ensure use of coal with ash content not exceeding 34% for the coal based thermal plant.

Request for extension of six months submitted to Maharashtra Pollution Control Board (MPCB). Procurement action for Ash sampler is in place. Target installation by September 2017.

Principle 7 Public Policy and Advocacy

1. Is your company a member of any trade and chamber or association? If Yes, Name only those major ones that your business deals with:

The Company is a member of various trade and chamber associations. The major ones are:

Confederation of Indian Industry (CII)

Federation of Indian Chambers of Commerce & Industries (FICCI)

The Associated Chambers of Commerce and Industry of India (ASSOCHAM) Association of Power Producers (APP)

2. Have you advocated/lobbied through above associations for the advancement or improvement of public good? Yes/No; if yes specify the broad areas (drop box: Governance and Administration, Economic Reforms, Inclusive Development Policies, Energy security, Water, Food Security, Sustainable Business Principles, Others)

JSW Energy works closely with trade / industry associations in evolving policies that govern the functioning and regulations of Power Sector. The Company participates in stakeholder consultation with Industry players and support the Government in framing policies in the following areas:

- Governance and administration
- Economic reforms
- Sustainable business principles
- Energy, water and other natural resources
- Social and community development
- Coal mining and auction
- Transparency in public disclosure
- Non-conventional energy

PRINCIPLE 8: COMMUNITY DEVELOPMENT

The Company has a dedicated CSR team of development professionals at each of its plant locations. It also brings on board the expert organisations and individuals to help run specific initiatives in and around the plants. The Company is also working with the Government to tackle the issue of malnutrition in the states of Karnataka.

- O. P. Jindal Centre (OPJC) of Vocational Studies, Ratnagiri - in collaboration with Father Agnel Technical Training Institute
- Nutrition Mission Bellary - Government of Karnataka and Spirulina Foundation
- HIV/AIDS awareness and counselling - Bhorka Charitable Trust
- Farm yield enhancement (Bellary) - the International Crop Research Institute for Semi-Arid Tropic (ICRISAT) and Government of Karnataka
- Water conservation and farm yield enhancement Ratnagiri with partnership with Government of Maharashtra and Saguna Bug

- Water conservation and farm yield enhancement Barmer with partnership with Government of Rajasthan and Kheti Vikash Kendra - SURE

JSW Energy is in the process of appointing Tata Institute of Social Studies (TISS), to conduct the third party impact assessment of its on ground initiatives at Energy plant locations. The Institute has shared the first set of reports to the Company's management.

The Company has also mandated the organisation "CSO Partners" to audit and validate the targeted initiatives and the results and impacts achieved thereof. JSW Energy ensures community participation in all its initiatives. None of its activities are merely handing over the benefits; this is to ensure the ownership of the community and critical for the sustenance of the initiatives. The communities are sensitised to come forward and contribute in whichever way possible they can.

JSW Energy monitors the effectiveness of its community investment programmes through the following three mechanisms:

- **Needs identification:** The Company proactively seeks feedback of its stakeholders to understand their expectations and structures its community programmers around it.
- **Monitoring:** During project implementation effective monitoring is carried out to ensure timeliness and effectiveness of programmers.
- **Impact assessment:** During and after the implementation of the projects, the Company carries out impact assessment studies to understand the impacts created by the projects.

1. Does the company have specified programmes/ initiatives/projects in pursuit of the policy related to Principle 8? If yes details thereof.

- JSW Energy believes in inclusive growth to facilitate creation of a value-based and empowered society through continuous and purposeful engagement with society around.

The company is well on its course to execute programs under the theme '*Janam Se Janani Tak - JSW Aap Ke Saath*' (JSJT), a long term commitment extending services to meet the pressing needs towards empowering women and children living in the Direct Influence Zone of JSW Energy's plant locations and beyond. Through JSJT our efforts are

directed towards enabling an ideal scenario where women and girls have access to quality education, healthcare and livelihood skills to build their own destinies while taking vital decisions in their families and society at large.

The Company has a full-fledged CSR (Corporate Social Responsibility) Department which looks after all Welfare and development of Individuals, Groups and Communities, living in the vicinity of Power Plants. JSW Foundation undertakes CSR programs in the following areas:

- Improving Living Conditions
- Promoting Social Development
- Addressing Social Inequalities
- Addressing Environmental Issues
- Preserving National Heritage
- Promoting Sports
- Promoting Rural Development Projects
- Promoting Swachcha Bharat Abhiyan

The programmes/initiatives/projects address issues like Malnourishment, Water Shortage, Rural Development, Income Generation Activities, etc. To name a few,

- Integrated Watershed Management Programme at Vijayanagar, Karnataka

- Paddy Productivity Improvement Programme at Ratnagiri, Maharashtra
- Women empowerment through installation of handlooms at Sholtu , Himachal Pradesh
- Renovation & Improvement of Primary Health Centres at Sholtu , Himachal Pradesh
- Renovation & upgradation of Girls' toilets in schools at Barmer, Rajasthan
- Construction of Individual Toilets at Barmer, Rajasthan
- Installation of Blood Bank Refrigerators at District Hospital, Barmer, Rajasthan

2. Are the programmes/projects undertaken through in-house team/own foundation/external NGO/ government structures/any other organization?

- The programmes, projects are undertaken through an in house team which works with our Group's Internal Arm of Foundation (JSW Foundation). All the CSR initiatives are approved by a committee appointed by the Board and the same are reviewed periodically at different levels.

3. Have you done any impact assessment of your initiative?

- No, there is no structured/definitive impact assessment done.

4. What is your company's direct contribution to community development projects - Amount in ₹ and the details of the projects undertaken.

Category	Investment (FY 2016-17) (₹ in Crores)	% of Total investment (FY 2016-17)
Improving Living Conditions	9.28	29%
Promoting Social Development	7.40	23%
Addressing Social Inequalities	0.36	1%
Addressing Environmental Issues	3.17	10%
Preserving national Heritage	3.00	9%
Promotion of Sports	2.97	9%
Rural Development Projects	2.14	7%
Swachcha Bharat Abhiyan	1.19	4%
Measures for Benefit of Armed forces veterans, etc.	1.19	4%
Project Management cost	1.62	5%
TOTAL	32.33	100%

Details are as under :**A. Promoting Social Development****a. Ratnagiri, Maharashtra**

- Trainings on E- learning, first aid, Electrical and road safety training, training to Anganwadi workers and primary teachers at 16 Govt. Schools 46 teachers & Anganwadi workers and 890 students are trained
- Facilitated digital classrooms in all the 16 schools in DIZ
- Supplementary nutrition in 15 primary schools and 14 Anganwadis, benefiting 500+ children
- 120 students are undergoing vocational courses such as Fashion Designing & Dress making, Non-voice BPO & Business and Spoken English at O P J Vocational Training Centre (VTC) Ratnagiri

b. Kuthar, Himachal Pradesh

- Scholarship to ITI / Diploma / Degree Students- Scholarship to 8 students of Diploma and Degree was provided during the period.

c. Sholtu, Himachal Pradesh

- Preschool education Intensive Workshop for Anganwadi Sevikas and supervisors of all 78 Anganwadi Centres of DIZ with the support of NGO Navnirmithi and ICDS dept. Also conducted a meeting with Parents at various Anganwadi Centres.
- Distribution of teaching kits to 78 Anganwadi Sevikas
- Repair and renovation in 4 Govt schools in which Intensive Renovation of 03 Schools and New construction of Govt Middle School Cholling
- Mini science Lab setup in 5 Government Schools

d. Barmer, Rajasthan

- Promoting and encouraging theatre in school education to make learning fun
- 'Theater in Education' program benefitted 300+ students, including 100 + girls

- 500 solar lanterns were given to rural schools in DIZ
- Equipment support to Satya Sai Blind 'Deaf & dumb School Barmer, Rajasthan.
- Tailoring & Computer Center at Village Bhadresh to train local youth under Youth Skill Building Project.

e. Chiplun, Maharashtra

- Repairing of school structure like flooring etc carried out various ZP-Schools in DIZ.
- Under digital class rooms, various schools are provided with Desktop, LCD projectors etc in DIZ.
- Solar kits with each set having 4 Tube Light+1 Fan donated to 15 ZP-Schools, which benefited schools in Lighting of Class rooms and reduction in electricity bills. Also observed 100% attendance.

B. Addressing social inequality**a. Ratnagiri, Maharashtra**

- Women empowerment and income generation programs

b. Kuthar, Himachal Pradesh

- Annuity Distribution: - Continued to distribute the annuity @ ₹ 1,000/- per month to 27 destitute / vulnerable persons in the project affected area.

c. Sholtu, Himachal Pradesh

- 20 Handlooms have been installed at 2 Centres and finished products of Handloom centres were displayed for sale at Kinnaur Mahotsav'2016 at Rekonigpeo

d. Barmer, Rajasthan

- 90 women are part of 8 SHGs in DIZ and getting regular training inputs to enhance handicraft product designs with the support of SURE organization
- 50 bicycles were given to needy adolescent girls in DIZ
- Swablamban Yojna for the widows of DIZ
- Kishori Manch initiatives for adolescent girls to address their issues

C. Addressing Environment Concerns**a. Ratnagiri, Maharashtra**

- Under Maharashtra government's 'Jalyukta Shivar Abhiyaan' has so far led to construction of 22 check dams at 241 Hac. The structures will hold more than 69,000 cubic meter of water in the catchment and will benefit 10,000+ people.
- Promotion of renewable energy and 12 biogas units

b. Sholtu, Himachal Pradesh

- Total 5,300 Species Chilgoza, Deodar, Robinia, Poplar, Pine etc were planted under Mass tree plantation drive organized in and around project areas plants of species, totalling upto 4,000 plants so far

c. Barmer, Rajasthan

- 243 Number of Solar Street Lights for Chuli, Bhadresh & Bisala Villages

D. Preserving National Heritage**a. Kuthar, Himachal Pradesh**

- Under these activities financial assistance was provided to District and Local Administration for upliftment of traditional culture.

b. Barmer, Rajasthan

- 90+ children of Manganiyar community was given training by Manganiyar folk music trainers to conserve the traditional folk music of Rajasthan
- Restoration of Kuldhara near Jaisalmer with the partnership of Government

c. Chiplun, Maharashtra

- Water shed management activity at Tulashi village, Tal-Khed, under "Jalayukt Shivar Abhiyan"

E. Swachh Bharat Mission**a. Ratnagiri, Maharashtra**

- Several initiatives have been taken to further basic hygiene across multiple locations which include construction of school toilets and repair of over 24 toilets.

- 100% toilet facility available at 1,865 houses in our DIZ

b. Kuthar, Himachal Pradesh

- In continuation to JSW effort of making the Govt. Campaign of Swachha Bharat Mission a success in the area, JSW under its CSR has constructed a community toilet in Garola Panchayat at Beauty. No of dustbins were placed in different location in Project Affected Areas for collection of garbage and is disposed off at identified location.

c. Sholtu, Himachal Pradesh

- After success in pilot program of 16 bio digester toilets installed at 2 gram panchayats now we are replacing septic tank with Bio Toilet technology
- 4 Bio Digester Toilets have been successfully installed, 3 at three Govt Schools and One at PHC Urni]

d. Barmer

- 160 individual toilets constructed (in totality 705)

e. Chiplun, Maharashtra

- School toilets were constructed and dustbins were distributed to various ZP-Schools in DIZ.

F. Rural Development Projects**a. Ratnagiri, Maharashtra**

- 14.31 KMs of rural road constructed in the DIZ
- 18.85 Kms water pipeline laid at 5 villages
- 115 solar lights installed at 5 villages

b. Sholtu, Himachal Pradesh

- Installed 16-metre-High Mast light at crowded area of Sangla Installed 02 Nos of High Mast Lights at Sangla & Tapri. Inaugurated and dedicated to panchayats, by Hon'ble Deputy Speaker HP Vidhan Sabha on 23.02.2017 & 24.03.2017 respectively

- c. **Barmer**
 - 243 solar street light in DIZ
- G. **Promoting Sports Development**
 - a. **Mumbai**
 - Support to 42 athletes for national and international coaching and nutrition
 - b. **Ratnagiri, Maharashtra**
 - 7 local children won 5 gold, 2 silver and 7 bronze at international karate championship
 - 5 local children had qualified for national level karate championship to be held in May 2017.
 - 57 local children had participated at national and state level for various sport events
 - c. **Sholtu, Himachal Pradesh**
 - Boxing ring installed in a government middle school benefitting 40+ boxing players
- H. **Improving Living Condition**
 - a. **Vijaynagar**
 - 12,098 children under 6 years, pregnant women - 888, lactating mothers - 2452 covered in MAM this year, covering 364 Anganwadis of Villages – 68, Gram Panchyats – 13, Town – 3/84
 - 46% reduction in malnutrition cases in DIZ registered
 - Govt of India has released the notification on Dec 2016 that SPIRULINA declared as Nutraceuticals.
 - Gol requested and ask CFTRI Mysuru to prepare guideline on fortification of SPIRULINA
 - CFTRI and JSW organized national level conference on “Malnutrition : Challenges, Success Stories and way forward.
 - JSW-ICRISAT watershed development and crop productivity enhancement program is benefiting farmers immensely.
- 162 rainwater harvesting and groundwater recharging structures constructed.
- Created effective net storage capacity to harvest about 18,800 m³ of rain water
- Structures have conserved 46,000 m³ rainwater during the rainy season in 2-3 fillings
- Groundwater levels increased by 1.5 m – 2.0 m
- Soil test based fertilizer application has been implemented by 70-80% of farmers
- Productivity enhancement: 28% in castor; 17% in Pearl millet, 17% in Pigeon pea
- Crop intensity has increased from 1:1.1 to 1:1.4
- Improved animal health and milk yields by 0.5-1.0 l/d
- 320 women have been supported with various income generating activities viz. nursery, vermicomposting, goatry, small petty shops, etc
- Additional income from nursery ₹ 22,000 per year, vermicomposting ₹ 1,000 per month/member, grocery shop ₹ 500-600 per month and Agarbathi making ₹ 2,000-3,000 per month/group
- Around 30,000 various plants (neem, gliricidia, pongamia, milia dubia etc) were planted in common lands, bunds on water harvesting structures, road side and private lands
- Awareness on new technologies and several trainings conducted to farmers on improved practices, field days for different crops, exposure visits to different locations.

b. Ratnagiri, Maharashtra

- 15,500+ people benefitted from our healthcare intervention in the DIZ every year
- 1,850+ families of 5 villages are able to get drinking water supply through pipe
- To benefit pregnant women and mothers of infants in the DIZ, Phone-Sakhi (a timed and targeted voice calling) was launched to remind them of approaching crucial days related to their pregnancy and infants' immunization and general care.

Agriculture and Watershed

- 500 farmers are associated
- 101 farmers adopted Saguna Rice Technology for rice cultivation
- Cultivation of Ginger, black bush pepper, Wheat and Rabi crops
- 7,290 villagers would be benefitted through 3 cement bandhara and 1 ferro cement tank (Total 22 cement badhara have been constructed so far)

c. Kuthar, Himachal Pradesh

- Under this activities one x-ray operator was deployed in PHC Garola where we have supplied x-ray machine and ECG and 350 patients were benefitted.

d. Sholtu, Himachal Pradesh

- Jindal Sanjeevani Hospital Sholtu, 40-bedded multispecialty hospital, providing health care services to 19 Gram Panchyats
- 20 gram panchayats and 650+ people benefitted from EYE OPDs through organized eye care camps and Facilitated 34 cataract operations
- 3 Government Primary Health Centers have been upgraded to achieve safe motherhood

e. Barmer

- Prevention of IMR: 200 Steel Top Labour Table, 46,000 baby kits, 1000 Kelly's Pad and 1000 Mucus Sucker to Government Hospitals

- Referral services through mobile medical van for villagers in case of emergency
- 3,50,000 liters water supply to four villages every day and maintenance of 7 Km pipeline laid for water supply to cover entire DIZ families
- Community Grazing Land Development Project at village Chuli

f. Chiplun, Maharashtra

- Watershed Management - constructed to increase in ground water level and water stock at Village Tulshi Tal-Khed.
- Augmentation of existing Government Health program by upgrading PHC services in association with the Department of District Health, Satara and stimulate all efforts to achieve mission Safe Motherhood objectives in Coverage of Helwak PHC.
- As a part of this mission a MoU was made and entered between JSW Foundation, KIMS Karad and District health Satara for providing services of OBG and pediatrician specialist visit to Helwak PHC
- Digging of Borewells for communities in Shiwane, Durgwadi, Khandotri villages.
- Provided Water filters to Schools in DIZ area.

5. Have you taken steps to ensure that this community development initiative is successfully adopted by the community? Please explain in 50 words, or so.

- JSW Foundation has initiated and implemented projects and programs which are easily acceptable and adoptable by the communities. Following are some of the examples of outcomes due to successful adoption:





a. Vijaynagar, Karnataka

- JSW-ICRISAT watershed development and crop productivity enhancement program is benefiting farmers immensely; In FY 15-16 farmers have witnessed 19% average increase in Groundnut harvest, 27% average increase in Maize harvest, 41% average increase in Pearl Millet harvest and 29% average increase in Cotton harvest.
- Ms. Thayamma, who utilized treated wastewater for the cotton/pigeonpea crop and got an average income of ₹ 34,000 and pearl millet during summer ₹ 20,000 in her 2 acres of land.

b. Ratnagiri, Maharashtra

- Phone-Shakhi is currently benefitting 709 pregnant women in 2 Primary health centres (PHC).
- They have been receiving 145 personalized voice messages of 60-90 seconds each, emphasizing on safe motherhood and child care practices.

Under Women empowerment and income generation programme

- 85 girls are associated with none voice BPO their average income of ₹ 5,000-11,500 per month and 22 girls are undergoing for training
- 39 local women are engaged with betel nut plate unit, bakery product and other small units, business of ₹ 55 lac is reported from April 2016 to March 2017.
- 115 women from SHG have been able to transform their lives and have collectively managed a turnover of ₹ 35 lac
- 13 SHGs earned ₹ 6.71 lac rupees in FY 2015-16 through entrepreneurial ventures

c. Sholtu, Himachal Pradesh

- Jindal Sanjeevani Hospital Sholtu, 40-Bedded Multispecialty Hospital, Providing Health Care Services to 19 Gram Panchyats – Opd Average Per Month- 1071, Deliveries & Lscs Avg. / Month -8, Major Operations – 7, Minor Operations Gen Surgery - 58 &

Gynae – 3 and Emergency/ Casualty – Attendance Average / Month - 228 and Emergency Detain Average / Month – 34

d. Barmer, Rajasthan

- 90 women are part of 8 SHGs in DIZ and getting regular training inputs to enhance handicraft product designs with the support of SURE organization

e. Mumbai, Maharashtra

Promotion of sports

- Bronze medal by Sakshi Malik at the Olympics 2016 (supported by JSW Energy)
- Lalita Babbar (supported by JSW Energy) became the first woman to qualify for an individual Olympic final after P T Usha in 1984
- Sumit Nagal clinched the Futures tennis tournament in Hungary on 2nd Oct defeating Peter Nagy 7-6 (3), 6-1
- Aryan Makhija, won silver in the 1500m freestyle event at the Seagulls Gala, in Durban. He also clinched Gold at the 400m Freestyle relay at the KZN Championships in Durban.
- Swimmers Likith, Siva, Karan and Aryan finished first in the 4x100m medley relay at the KZN Championships in Durban.
- Likith clinched silver in the 200m freestyle at the KZN Championships
- Sandeep Tomar won Gold in the 57kg freestyle category at the National Wrestling C'ships in Gonda
- Ravinder secured Gold in the 65kg Greco Roman category at the National Wretling Championships
- Satyawart Kadian won Gold in the 97kg freestyle event at the National Wretling Championships
- Sandeep Tomar and Satyawart Kadian have won Gold at the Commonwealth Wrestling Championships, in Singapore.
- Sandeep Tomar clinched Bronze at the Golden Grand Prix in Baku in November

- JSW-boxer Vikas Krishan created history by winning the 2016 Best Boxer Award by the International Boxing Association (AIBA), in Lausanne. This is a first in the history of Indian boxing.
- JSW supported boxer, Nikhat Zareen, successfully made it to the semi-finals of the 1st Elite Women's Senior Nationals.
- JSW's Satish Kumar won the 2016 Senior Men's National Championship with a 5-0 win over Parveen Kumar in December.

Principle 9: CUSTOMER SATISFACTION

1. What percentage of customer complaints/ consumer cases are pending as on the end of financial year.
 - Two cases filed by MSEDCL before MERC seeking benefit under the provision of Change in Law in the PPA and amendment in the definition of contracted capacity in the PPA respectively.
6. Does the company display product information on the product label, over and above what is mandated as per local laws? Yes/No/N.A. / Remarks (additional information)
 - Not Applicable
7. Is there any case filed by any stakeholder against the company regarding unfair trade practices, irresponsible advertising and/or anti-competitive behaviour during the last five years and pending as on end of financial year. If so, provide details thereof, in about 50 words or so.
 - No
8. Did your company carry out any consumer survey/ consumer satisfaction trends?
 - Since the business primarily is with customers from government entities, with whom the Company continuously engages / interacts, no formal survey has been carried out.