

# Business Responsibility Report

## 2018-19

### JSW Energy Limited

#### 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	<a href="http://www.jsw.in">www.jsw.in</a>
6	Financial Year reported	2018-19
7	Sector(s) that the Company is engaged in (industrial activity code-wise)	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
8	List three key products/services that the Company manufactures / provides (as in balance sheet)	1. Power Generation (Thermal and Hydro) 2. Power Transmission 3. Power Trading
9		
	i. Number of International Locations (Provide details of major 5)	Major International Operations: 1. South Africa - South Africa Coal Mining Holdings Limited – Coal Mining & Ancillary activities (11 sites)  2. Swaziland - Minerals & Energy Swaziland Proprietary Ltd - Mining activities (1 site)
	ii. Number of National Locations	JSW Energy Limited 1. Vijayanagar (Karnataka) 2. Ratnagiri (Maharashtra)  Subsidiaries 3. JSW Energy Barmer Limited – Barmer, Rajasthan 4. JSW Hydro Energy Ltd – Karcham-Wangtoo HEP and BASPA - II HEP, Himachal Pradesh 5. JSW Energy (Kutehr) Limited – Kutehr,

		Himachal Pradesh 6. JSW Energy (Raigarh) Limited – Raigarh, Chattisgarh 7. JSW Power Trading Company Limited - Delhi
10	Markets served by the Company - Local / State / National / International /	Maharashtra (MSEDCL), Karnataka (State DISCOMS), Himachal Pradesh (HPSEB), Haryana (HSEB), Rajasthan (State DISCOMS), UP (State DISCOMS), Andhra Pradesh (APSEB), Telangana (TPCC), Punjab (PSPCL)

## SECTION B: FINANCIAL DETAILS OF THE COMPANY

1. Paid up Capital (INR): - 1640.87 INR Crore
2. Total Turnover (INR): - 9505.56 INR Crore
3. Total profit after taxes (INR): - 695.13 INR Crore
4. Total Spending on Corporate Social Responsibility (CSR) as percentage of profit after tax (%): - 25.17 INR Crore
5. List of activities in which expenditure in 4 above has been incurred: -
  - (a) . Improving Living Condition
  - (b) . Promoting Agriculture and Watershed
  - (c) . Promoting Social Development and Employability
  - (d) . Addressing Social Inequality
  - (e) . Addressing Environment Concerns
  - (f) . Preserving National Heritage
  - (g) . Promoting Sports Development
  - (h) . Promoting Swachh Bharat Abhiyan

## SECTION C: OTHER DETAILS

1. Does the Company have any Subsidiary Company/ Companies?

List of Indian Subsidiaries: -

JSW Energy (Barmer) Limited  
 JSW Hydro Energy Limited  
 Jaigad PowerTransco Limited  
 JSW Energy (Raigarh) Limited  
 JSW Energy (Kutehr) Limited  
 JSW Green Energy Limited  
 JSW Power Trading Company Limited  
 JSW Electric Vehicles Private 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.

Raj WestPower Ltd. And Himanchal Baspa Power Company Ltd. 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

(a) Details of the Director/Director responsible for implementation of the BR policy/policies

1. DIN Number: - 00019442
2. Name: - Mr. Nirmal Kumar Jain
3. Designation: - Director

### (b) Details of the BR head

No.	Particulars	Details
1	DIN Number (if applicable)	Not Applicable
2	Name	Dr. Suman Majumdar
3	Designation	Group Chief Sustainability Officer
4	Telephone number	022-4286 1000
5	e-mail id	suman.majumdar@jsw.in

## 2. Principle-wise (as per NVGs) BR Policy/policies

(a) Details of compliance (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									



	understood the Principles	
2	The company is not at a stage where it finds itself in a position to formulate and implement the policies on specified principles	
3	The company does not have financial or manpower resources available for the task	
4	It is planned to be done within next 6 months	
5	It is planned to be done within the next 1 year	
6	Any other reason (please specify)	

### 3. Governance related to BR

(a) 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 within 3-6 months every year.

(b) Does the Company publish a BR or a Sustainability Report? What is the hyperlink for viewing this report? How frequently it is published?

The requirements of business Responsibility Report are outlined in company's Integrated Report for FY 2018-19. This report is available on company's website [www.jsw.in/investors/energy](http://www.jsw.in/investors/energy).

## SECTION E: PRINCIPLE-WISE PERFORMANCE

### Principle 1: ETHICS, TRANSPARENCY AND ACCOUNTABILITY

- 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 on the Board. 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 stakeholders 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.

59 complaints were received from shareholders in 2018-19, and all were resolved

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

1. List up to 3 of your products or services whose design has incorporated social or environmental concerns, risks and/or opportunities.
  - Electricity generation through fossil fuel
  - Electricity generation through hydro power

JSW Energy Ltd. believes in the efficient utilisation of all available resources. Today it is a leading, full-spectrum, integrated power company, with presence across the power sector value chain. Living up to this strong legacy by managing efficient operations, enhancing social and economic benefits, minimising environmental impacts, and employing cutting-edge innovation, JSW Energy has consolidated its place at the top of the ranks in India. Due to this Business Excellence focus and a sterling performance in all facets of an industrial power plant a host of awards were won in 2017-18 by JSWEL plants.

At all generating stations

- i. Safety, Occupational Health of the employees as well as contract workers is given utmost importance along with environmental management and regulatory compliance.
- ii. Power Transmission - Various awareness sessions are conducted around high voltage lines on Safety to the employees and Associates.
- iii. O&M Services - Various initiatives such as safety audits, inspections and training programs are conducted for improving safety & health of Associates.

**The Vijaynagar plant** won the **Innovation in Energy Conservation Award** by IPPAI for the FY 2017, (for the installation of VFD and elimination of hydro-coupling in ID Fan). It also was recognised by CII's Energy Efficient Unit ("**Excellence in Energy Management**") for FY 2018, and was the winner of the RoSPA (UK) Silver Award (**Prevention of Accidents**) for FY 2018. CII's Energy Efficient Unit ("**Excellence in Energy Management**") for FY 2018, **FICCI – Safety Excellence** Gold Award – 2018.

**The Ratnagiri Plant** won the **Innovation in Energy Conservation Award** by IPPAI for FY 2017-18 (for the installation of VFD and elimination of hydro-coupling in ID fan);

**SEEM** - (Gold Category award for Energy Conservation) for FY 2017-18; **Five-Star Rating** from Maharashtra Pollution Control Board in 2017-18; and **Outstanding Achiever in Power Sector by IPPAI Innovation Award** in Fuel Storage (New Alternate Fuel) Pyrolysis System in October 2017.

**The JSWEL Barmer Plant** won the following Awards in FY 2018-19

1. Green Maple Foundation (GMF) Award received for winner of Gold Award for outstanding achievement in "Horticulture Development".
2. The 19th IPPAI Award-2018 received under the category of "Best Thermal Power Generator" (Runner-Up) Award.
3. Green Petal Award (GPA)-2018 received by Green Maple Foundation India, under the category of "Achiever Energy Conservation" .Award.
4. Green Petal Award (GPA)-2018 received by Green Maple Foundation India, under the category of "CSR" (Winner).
5. Green Petal Award (GPA)-2018 received by Green Maple Foundation India, under the category of "Environment Management" (Winner).
6. 9th Rajasthan Energy conservation award-2018, Received 2nd Prize in the category of "Energy conservation" by Rajasthan Renewable Energy Corporation Limited, Government of Rajasthan.
7. ET CSR Leadership Award' under 'Safe Drinking Water' category under individual application, JSWBL selected for '100 most Impact ful CSR Leaders 2019' at world CSR day.
8. Community CSR Initiative Award 2019 by India CSR Awards for Project 'Aajivika (livelihood category)' at Giving Back - India CSR Leadership Summit & Awards, Received trophy and certificate.
9. Grow Care India Environment, Sustainability and Water Management Awards 2018. Selected under the category of 'Water Management Awards 2018' (Gold).

**JSW Hydro Energy, Himachal** received the prestigious Grow Care **Safety Gold Award – 2018**.

**JSW Energy Mumbai –** Received the "**Golden Peacock Award for Sustainability – 2018**" - Winner under Private Category

These recognitions in every aspect i.e. **CSR, Energy Conservation, Sustainability, Best power generator, Environment Management and Innovation** etc. reflect a consistent focus of the organisation on optimal efficiency, Innovation, energy conservation and environment management. 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 and lignite) as well as well as secondary fuels (e.g., heavy fuel oil and light diesel oil). Risks 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, JSW Energy Barmer Ltd 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 utilised 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 the port to the plant premises 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 the electricity as per the requirement (schedule) of the customer.

### Hydro Power Plants:

Hydro power is a form of renewable energy which is generated by non-consumptive use of water, and hence there is no reduction in the resource. During all stages of the product life cycle quality, occupational health and safety, and environmental parameters are considered important and awareness sessions for the risks, hazards involved and the safety systems & processes to be followed by employees and associates are held periodically. Regular inspections and safety audits are conducted in order to keep the systems healthy & avoid hazards, thereby improving the safety parameters for all employees and associates.

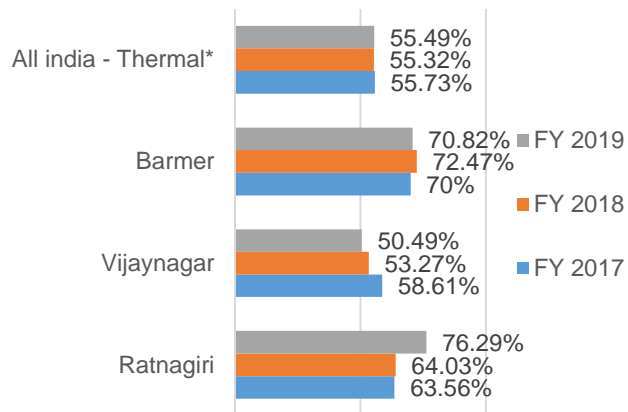
The plants of JSWEL are certified to the following management systems:

- **Ratnagiri (1,200 MW):** ISO 9001-2015, ISO 14001-2004, OHSAS 18001-2007 and ISO 50001-2011.
- **Vijayanagar (860 MW):** ISO 9001-2015, ISO 14001-2015, OHSAS 18001-2015 and ISO 50001-2011
- **Barmer (1,080 MW):** ISO 9001-2015, ISO 14001-2015, OHSAS 18001-2007 and ISO 50001-2011
- **Hydro Power (1,300 MW):** ISO 9001-2015, ISO 14001-2015 and OHSAS 18001-2007

All the above systems are designed for compliance towards social or environmental concerns, risks and/or opportunities in the JSW Energy power plants and are subject to regular audits.

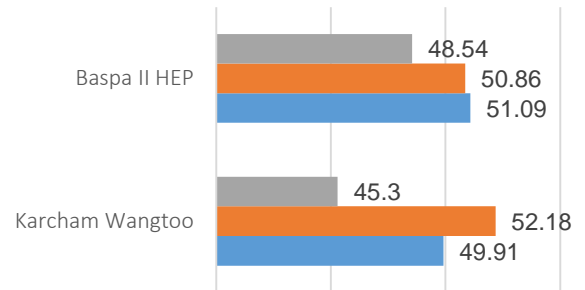
2. For each such product, provide the following details in respect of resource use (energy, water, raw material etc.) per unit of product(optional):
  - (a) Reduction during sourcing/production/ distribution achieved since the previous year throughout the value chain?

### Plant-wise PLF (Thermal)



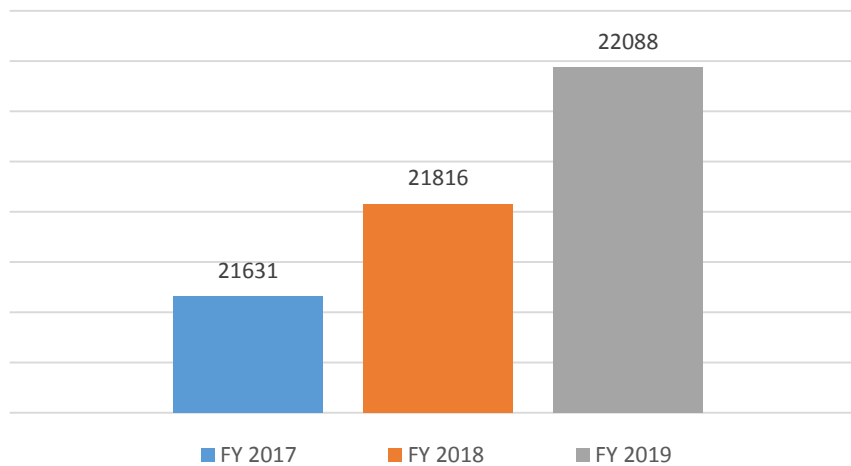
\* Upto February 2019 (Provisional) for private sector, Source : CEA

### Plant-wise PLF (Hydro)

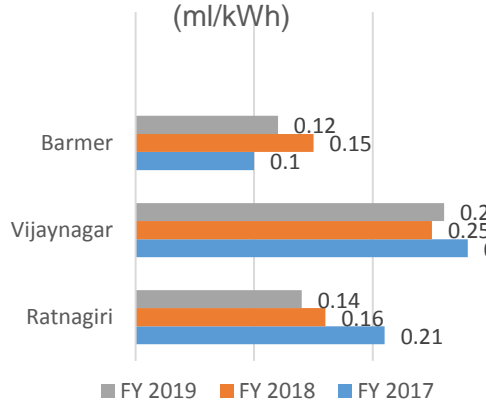


■ FY 2019 ■ FY 2018 ■ FY 2017

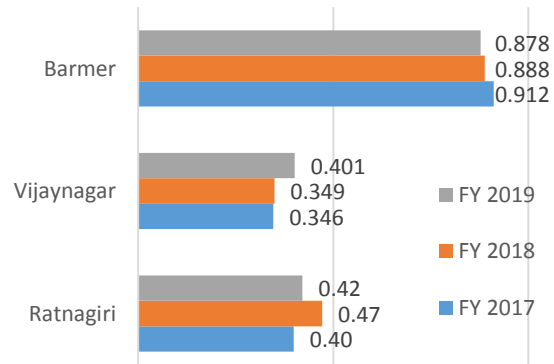
### JSW Energy Consolidated Net Generation (MUs)

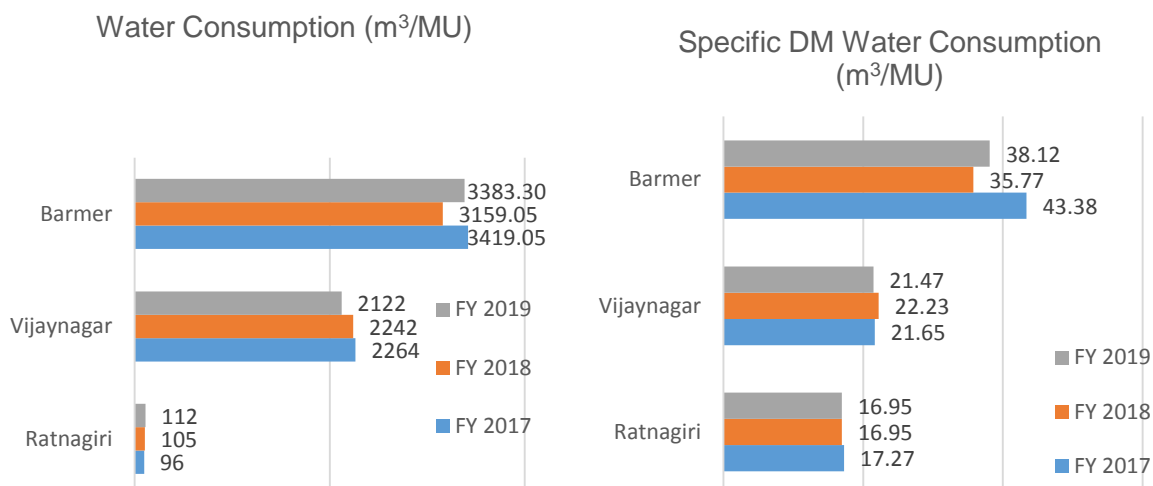


### Specific Oil consumption (ml/kWh)



### Specific Coal Consumption (kg/kWh)





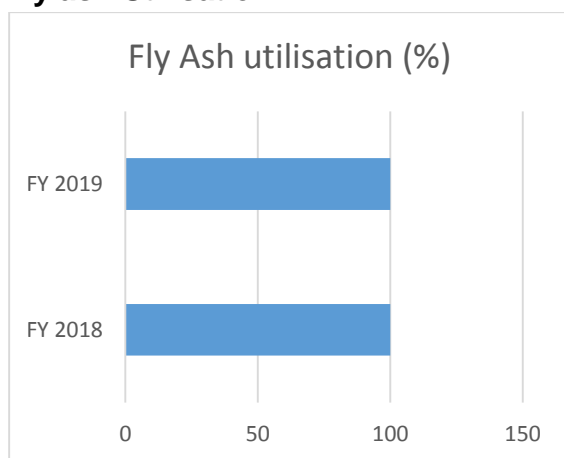
(b) Reduction during usage by consumers (energy, water) has been achieved since the previous year?

Not Applicable, since the company is only into power generation but not in 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**

The company recycles and utilizes wastes as per details furnished below.

#### Fly ash Utilisation



Fly Ash Utilisation Streams		
Vijayanagar (JSWEL)	Ratnagiri (JSWEL)	Barmer (JSWEBL)
Cement companies: 82%	RMC: 77.5%	Cement companies: 76.4%
Ash pond bunds: 12%	Cement plant: 9.3%	Bricks: 12.1%
Brick making: 6%	Bricks/blocks: 13.2%	Mines: 11.5%

#### Recycle/Reuses at Sites:

##### Ratnagiri:

Coal reject from the pulverizers is re-used. The percentage of the reject coal with respect to total coal used in FY-18 is 0.093%.

The used oil / waste oil is included under hazardous waste category, and are therefore sent to government-approved vendors for recycling.

The sewage treatment plant receives the wastewater from the plant and canteen, whereas waste from the canteen is disposed in the bio-gas plant. The bio-gas is used for cooking.

The plastic waste generated from packing form incoming spare parts is recycled. The plastic is processed through plastic pyrolysis machine and the pyrolytic oil generated for the same is used as fuel with LDO during boiler light up.

The domestic waste water generated from the TPP is treated and reused for gardening and horticulture purpose

#### **Vijayanagar:**

The details are furnished as below:

The coal rejected (100%) from the pulverizes are reused.

CW blowdown Water: 571225 cum water is recycled in Reverse Osmosis (RO) Plant, and about 288064 cum water re- used for steel plant Ore Beneficiation Plant (OBP). The entire wastewater is treated in the effluent treatment plant based on reverse osmosis (RO) technology, and the recycled product, i.e., water, is used in cooling towers as make-up water, while the RO reject stream is used for plantation. Thus achieves Zero discharge of effluent water

The waste oil / used oil is included under hazardous waste category, and are sent to government-approved vendors for recycling. Waste oil of 13760 L (100%) and 100% e-waste disposed through KSPCB authorized recycler

The e-wastes are disposed of through authorised recyclers. Other wastes, such as steel and wood are reused internally.

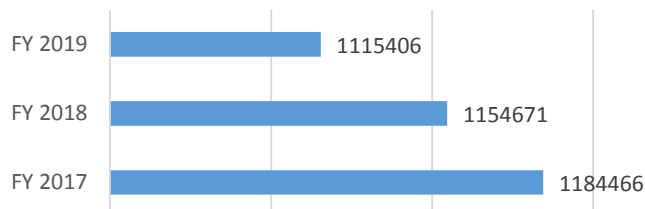
#### **Barmer:**

The used oil / waste oil is included under hazardous waste, and all of it is sent to the government-approved vendors for recycling.

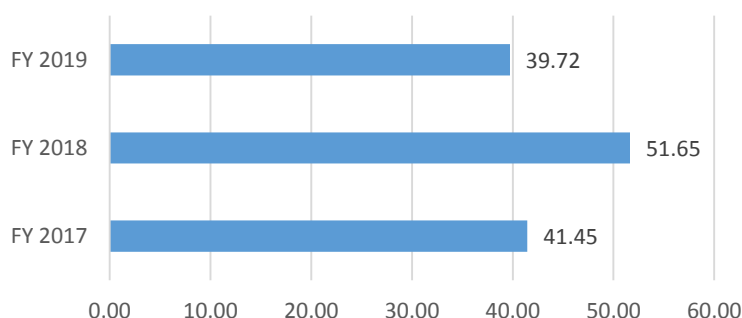
The wastewater is treated in the reverse osmosis (RO) based effluent treatment plant and recycled water is combined with raw water as part of the feed to the demineralised water plant or as part of the make-up water to the cooling towers, while the RO reject water is used for plantations and ash / lignite spray, etc. Thus, zero effluent discharge is achieved.

The food waste is converted and used as organic compost.

### Consolidated Non-hazardous Waste (MT)



### Consolidated Hazardous Waste (MT)



*Includes hazardous and non-hazardous waste generated in JSWHEL*

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

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

Not applicable for Hydro generation.

**JSW Energy, Ratnagiri** operates on imported coal and constantly attempts to make the sourcing and inbound logistics as sustainable as possible. The plant is located on the coast; while all its imported coal comes via the sea route to the port at Ratnagiri, the coal is then transported to the stockyard inside the plant via covered conveyor belts.

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 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.

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.

**JSW Energy, Vijayanagar** is also based on imported coal and like Ratnagiri, it strives to make the sourcing and inbound logistics as sustainable as possible. Imported coal for the plant is received by the sea route either at Goa or at Krishnapattanam, and then transported to the stockyard by rail in covered wagons, then to the plant via covered conveyor belts. In both cases all vendors are registered only after they sign up on a commitment on environment and social parameters.

The company is also promoting and encouraging surrounding areas local small suppliers, civil, housekeeping, horticulture contractors and transporters which help them in securing work contracts. We also encourage our contractors to involve the local people in Operation and Maintenance (O&M) activities. We also encourage the contractors to procure the construction materials from local and small Vendors.

The Company involves the local people right from the stage of the construction of the plants and we are providing apprenticeship to the ITI holders for their skill development and better employment opportunities.

The local contractors are being imparted with the best safety standard under contract safety management system thereby their capacity is enhanced to compete with their peers.

**At JSW Energy Barmer** the lignite comes in from the Kapurdi Mines via belt conveyor over a distance of 4 km, it strives to make the sourcing and logistics as sustainable as possible. The conveyor is covered for its entire length making it a safe and environment friendly. Limestone is procured from RSMML (Govt. entity) mines which comes through trucks. The mines allot the secondary fuel to end user in sustainable way.

The company is giving employment in horticulture and housekeeping work to the local manpower available. They are being given priority in housekeeping, horticulture contractors and transporters (like JCB, Dozer, dumpers, tractors etc.). We are providing technical and safety training in Plant Kaushal Vikas Kendra to the manpower working here, which makes them more reliable and employable in safe ways.

**5. 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?**

**JSW Hydro Energy** generates energy from hydro by non-consumptive use of water as raw material. The Company has not only implemented a variety of community development initiatives to support the local people around the project area, it also engages with local contractors for the CSR activities, especially construction related.

In order to improve their capacity and capabilities, engineers / supervisors from the Company are always monitoring their work and offer suggestions whereby they could improve and be more efficient.

**JSWEL Ratnagiri**

The Company involves the local people right from the stage of the construction of the plants and in certain cases also trains them. This not only makes them employable but also actually get employed. The Company encourages its contractors to involve the local people. In certain cases, the Company even employs the local people directly, and engage them in operation and maintenance (O&M) activities. The contractors are constantly encouraged to procure their construction material from local and small vendors. Small suppliers, predominantly civil contractors and transporters who help them in securing work contracts at nearby locations are being promoted and encouraged. Further, the Company has worked with the local communities and prepared check dams in the vicinity of villages to ensure water availability in the summer months and consequently increased 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 which can be used by JSW (like beetle nut plates). 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 of fruits and vegetables. The farmers are allowed to set up stalls at the Company canteen and in the township to sell the fruits and vegetables grown by them. The Company has started a rural BPO to increase the employment and create an earning opportunity.

**JSWEL Vijaynagar**

The company is promoting and encouraging surrounding areas local small suppliers, civil, housekeeping, horticulture contractors and transporters which help them in securing work contracts. We also encourage our contractors to involve the local people in Operation and Maintenance (O&M) activities. We also encourage the contractors to procure the construction materials from local and small Vendors.

The Company involves the local people right from the stage of the construction of the plants and we are providing apprenticeship to the ITI holders for their skill development and better employment opportunities.

The local contractors are being imparted with the best safety standard under contract safety management system thereby their capacity is enhanced to compete with their peers.

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 which can be used by JSW (like plates from leaves of the betel nut plants). Skill development of nearby communities is also being carried out through Vocational Training Centre (VTC) to increase employability.

**JSW Energy Barmer**

The company is giving employment in horticulture and housekeeping work to the local manpower available. They are being given priority in housekeeping, horticulture contractors and transporters (like JCB, Dozer, dumpers, tractors etc.). We are providing technical and safety training in Plant Kaushal Vikas Kendra to the manpower working

here, which makes them more reliable and employable in safe ways.

### **Principle 3: HUMAN CAPITAL**

1. Please indicate the Total number of employees.

Total Number of Permanent Employees: 1807

2. Please indicate the Total number of employees hired on temporary/contractual/casual basis.

Total Number of Contractual Employees: 2935

3. Please indicate the Number of permanent women employees.

Total Number of Permanent Women Employees: 65

4. Please indicate the Number of permanent employees with disabilities

Total Number of Employees with disabilities :6

5. Do you have an employee association that is recognized by management.

No of Employee recognized association:1

6. What percentage of your permanent employees is members of this recognized employee association?

Percentage of your permanent employees is members of this recognized employee association: 30.43%

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.

No.	Category	No of complaints filed during the financial year	No of complaints pending as on end of the financial year
1	Child labour/forced labour/involuntary labour	None	NA
2	Sexual harassment	1	0
3	Discriminatory employment	None	NA

8. What percentage of your under mentioned employees were given safety & skill up-gradation training in the last year?

(a) Permanent Employees: 100%



- (b) Permanent Women Employees: 100%
- (c) Casual/Temporary/Contractual Employees: 100%
- (d) Employees with Disabilities: 100%

#### **Principle 4: STAKEHOLDERS ENGAGEMENT**

1. Has the company mapped its internal and external stakeholders?  
Yes

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

- a) Government and regulatory authorities
- b) Investors and Shareholders
- c) Employees
- d) Customers
- e) Local Communities
- f) Suppliers / contractors.
- g) Lenders
- h) NGOs

There is a defined set of processes for interacting and engaging with various stakeholders at various levels. A Committee of the Board deals 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 specialised teams ensure communication with various stakeholders internally and externally which helps the Company in understanding their concerns and respond to them appropriately

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

Yes, among the stakeholder populace residing in DIZ, a baseline survey was conducted in project affected villages to identify the disadvantaged people. It forms the basis of the Company's CSR initiatives design to make it more focused towards improving life quality of villagers in general and women and marginalized in particular.

3. 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.

##### Ratnagiri

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

- a) 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 cub-boards, 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 cub-boards, 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 279 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.

### JSW Barmer

JSWEBL has done the listing of each stakeholders and have a defined engagement plan as follows:

#### 1) Engagement Plan with 'Local Communities' includes:

- a) Implementing 'Need Based CSR Projects' across various themes, i.e. Health, Education, Skill Development, Livelihood Promotion, Basic Infrastructure Development, and Promotion of Local sports & culture (CSR Business Plan FY 2019-20)
- b) Meeting with community people during field visit and interacting with them on day to day basis
- c) Participating in social events/functions organised by the community
- d) Organizing and participating in targeted group level meetings, i.e. Women SHG meetings, school teachers meeting, Village Leader meetings, etc
- Organizing launch events of CSR projects, observing national festivals and important calendar events, i.e. Independence Day, Republic Day, etc

#### 2) Engagement Plan with 'Community Leaders' includes:

- a) Meeting with them on one to one basis at office and during field visits
- b) Addressing, at times, their genuine demands focused on development of whole community rather than individual
- c) Facilitating and organizing meetings from time to time of important community leaders meeting with senior management

#### 3) Engagement Plan with 'NGOs' includes:

- a) Providing opportunity to credible like minded NGOs to partner with us and implement our CSR projects
- b) Monthly review meetings with partner NGOs, implementing CSR Projects, to track progress and decide on next month's activity plan
- c) Meeting with other local and state level NGOs to develop and maintain an amicable relationship and provide technical and other support, as and when needed

### Vijayanagar

JSWEL Vijayanagar has taken following initiatives to engage with the disadvantaged, vulnerable and marginalized stakeholders.

Improving rural livelihoods through intergrated watershed Management for five vicinity of village to doubling their income. Keeping in mind the following;

1. Climate
2. Soil
3. Crops
4. Water
5. New livelihoods & Market link (These activities we are executing through ICRISAT.( International crops research institute for the semi-arid tropics)
6. Commissioning of 2 ton Boiler and supply of PRS to support mid day meal scheme program benefitting 1,30,000 children
  - Health Care Camps:, General Health camp, School children vision screening, cataract eye operation to the needy villagers surrounding the plant
  - Nutrition Awareness and culmination of tobacco addiction to school children 3250 nos.
  - Fogging at 30 DIZ Villages

## II. Social Development

- RO Plant of 2000 ltr capacity at Toranagallu and P K Halli benefitting 2500 citizens
- Science Park at Torangallu – 10000 children surrounding Toranagallu village can utilize the facility
- JSW Model Toilet constructed at Govt School Veniveerapura village benefitting atleast 350 children

## III. Rural Development

- Completion of Compound wall and construction of 1200 mts drain at Community Health Centre making the CHC hygienic and avoiding infection
- Completion compound wall of Ankamma School, at Toranagallu station area

### **JSW Hydro Energy Ltd**

To meet the prime motive of the Company's CSR philosophy, a comprehensive approach to improve the citizen services of providing

- safe drinking water and sanitation,
- public health,
- school and
- vocational/technical education

is taken up since inception. Besides this, empowering women through making them self-reliant and conserving traditional cultural heritage of the Kinnaur District is an integral part of the CSR program.

## **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?

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.

The Company has also extended strong support to associate manpower by covering them in Group Personal Accident & Group Medclaim policy. The Company abides by all the rules and regulations related to human rights which is applicable in the area of operations.

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. 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. All rules and regulations related to human rights which are applicable in the area of operations are abided by.

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

59 complaints were received in 2018-19, and all were resolved.

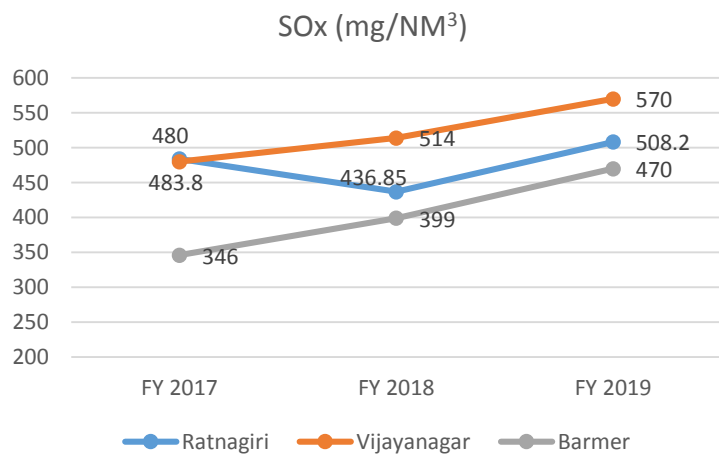
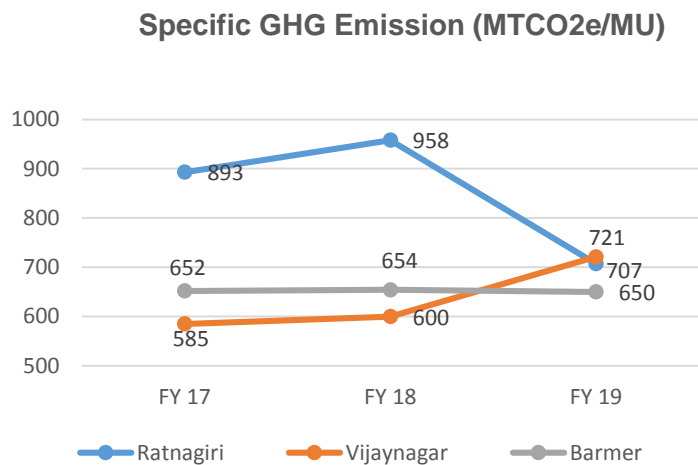
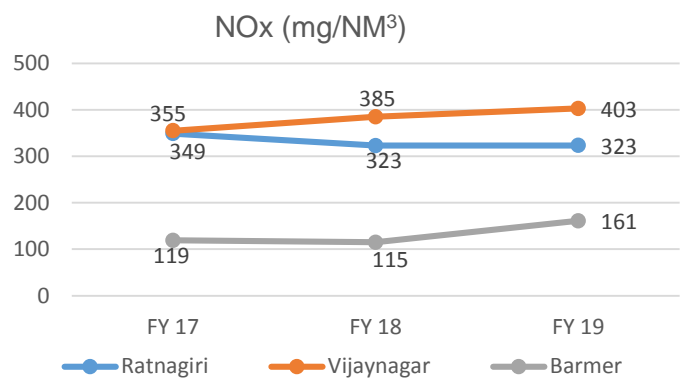
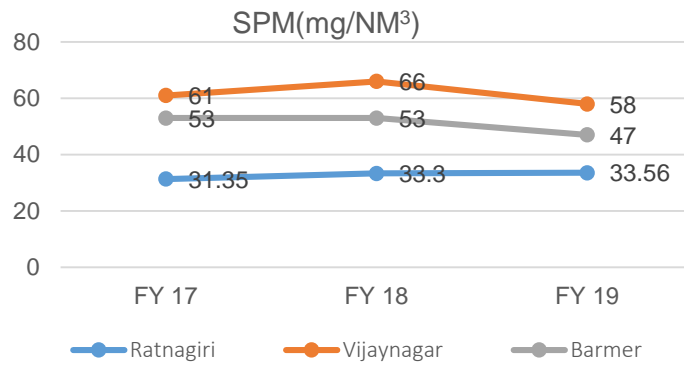
## **Principle 6: ENERGY AND ENVIRONMENT**

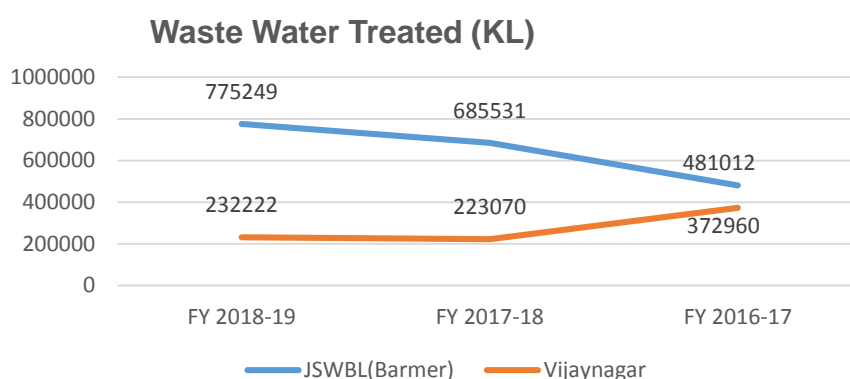
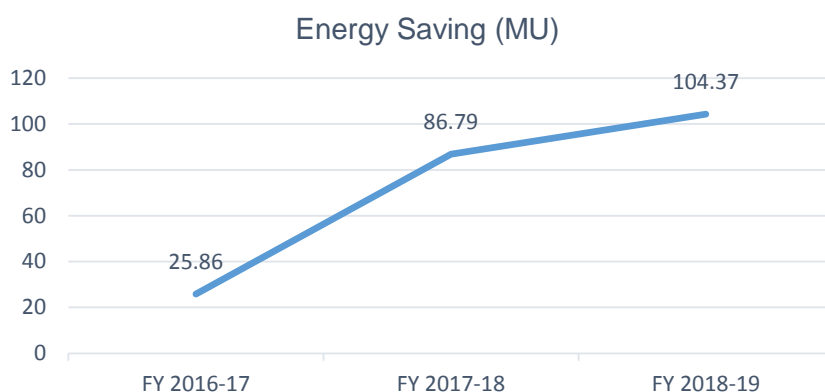
1. Does the policy related to Principle 6 cover only the company or extends to the Group/Joint Ventures/Suppliers/Contractors/NGOs/others.

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.





*The Ratnagiri plant uses a seawater cooling system, which results in zero consumption of natural river water. Therefore, the need to recycle water is eliminated.*

- 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.

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 18 are summarized below:

#### **Ratnagiri:**

Following projects are implemented to address global environmental issues.

- Replacement of APH baskets to improve heat rate
- Replacement of HPH parting planes to improve performance thus reducing heat rate.

- Identification of passing valves and rectification to reduce heat wastage.

#### **Vijayanagar:**

Yes. 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,

Glimpse of actions taken during FY 18-19 are summarized below:

- We have improved the emission standards, by changing the ESP fields spike type electrodes with spiral type electrodes and there by increased the availability of ESP fields and better SPM levels.
- We have reduced the fossil fuel consumption by reduce the auxiliary power consumption by 1974KWh by carrying out various in-house operation/process improvements like Installation of VFD, ESP power consumption optimization by changing the charge ratios, CEP header pressure reduction, part load equipment run hour optimization etc which had resulted in reduction in GHG emission.

#### **JSW Hydro Energy Ltd**

The Company addresses the environmental issues by the following activities:

- Afforestation/Plantation drives  
Compensatory Afforestation for both the power stations have been got carried out through Himachal Pradesh Forest Department. Over and above, plantation drives have been consistently taken up and in 2018-19 about 4269 new plantations (Robinia, Dreak, Popular, Neoja, Weeping Willow, Allanthus etc.) have been completed.

#### **JSW Energy Barmer**

Yes. JSW Energy Barmer 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 and cool environment.

Glimpse of actions taken during FY 18-19 are summarized below:

- Helium leak detection test done to assess air ingress and thus improve condenser vacuum. The same leads to heat energy savings.
- We have reduced the fossil fuel consumption by reduce the auxiliary power consumption by 1.3% from normative by carrying out various in-house operation/process improvements like Installation of VFD in LP drip pump, ESP

power consumption optimization, CW running hour optimization in winters etc which had resulted in reduction in GHG emission.

- Being a desert location, Rain water harvesting being done at our plant.
- Environment emissions are maintained within the norms. Limestone being dosed to maintain SOx emissions to minimum

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 quarterly by the Directors of the Risk Committee. Once risk is identified, steps are taken to measure and mitigate risk through the Management System approach.

Both the plants under JSW Hydro Energy Ltd have detailed Environment Impact Assessment (EIA) and Environment Management Plan (EMP) in place. Both the EIA & EMP have been duly approved by the MoEF & CC (Ministry of Environment, Forest & Climate Change). Moreover, Disaster Management Plan (DMP) and Emergency Action Plan (EAP) have also been prepared and implemented for both the plants.

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?

Yes, both 1,000 MW Karcham Wangtoo (KWHPS) and 300 MW Baspa II are registered as a CDM projects. Process has been started to bring both the projects under VCS (Voluntary Carbon Standard) programme under the present owner, HBPCL.

Environmental Compliance Report (Half-Yearly) is submitted to MOEF, Government of India for both the power stations. In addition, Environment Statement (Form-V) is submitted to Himachal Pradesh State Pollution Control Board annually.

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:

Hydro power generation itself is considered as renewable source of energy. Since both the projects under JSW Hydro Energy Ltd are run-of-river hydro scheme, with no large pond and no emission of greenhouse gases, both helps in the sustainable development under clean development mechanism.



### Summary of APC - POG Activities in SBU-2 for FY 2018-19

Unit	Date of implementation	Activity	Net Savings in kwh	Monetary Savings in INR lakhs
SBU 2 U1	Apr-18	CEP header Pressure Optimization@ Part load(150 MW)	262	46.19
	Aug-18	One CCW pump stop @150 MW load	98	21.29
	Nov-18	CW Pump 1A after pump overhaul savings	53	6.13
	Mar-18	ESP mode changing from E to B	529	159.71
SBU 2 U2	Apr-18	CEP header Pressure Optimization@ Part load(150 MW)	125	6.65
	Aug-18	CCW pump stop @150 MW load	275	0.99
	Nov-18	Shut down unit - Shaft & support insulator Heater off	119	12.76
	Nov-18	APH LOP's stop in Shutdown unit	3	0.32
	Mar-18	ESP mode changing from E to B	503	108.69
	Jan-19	APH aux motor running instead of Main Motor	8	0.44
CHP	Apr-18	CHP Specific power consumption (per ton of Coal) optimization	0.06	5.54
<b>Savings in lakhs</b>				<b>368.71</b>
<b>Sustenance after implementing improvement projects in previous years</b>				
SBU-2 Unit-1	Apr-18	One BFP stop for unit part load operation (150 MW operation)	1200	234.89
	Apr-18	One CW Pump stop for unit part load operation (150 MW operation)	1480	269.86
SBU-2 Unit-2	Apr-18	One BFP stop for unit part load operation (150 MW operation)	1200	53.33
	Apr-18	One CW Pump stop for unit part load operation (150 MW operation)	1480	66.13
AHP	Apr-18	Ash handling Specific power consumption (per optimization	35.42	10.89
<b>Savings in lakhs</b>				<b>635.10</b>
<b>Total Savings in lakhs</b>				<b>1003.81</b>

## **JSW RATNAGIRI**

- Carried out optimization of Ash handling compressor System so as to stop all compressors for 5 hours thereby saving 2.1 Mus
- Carried out refurbishment of HPH-6 in Unit-1 to save heat rate by 8 kCal/kWh
- Carried out replacement of baskets for APH-B and high pressure jet water washing for APH-A in Unit-1, thereby saving 333 kW in ID fan power consumption & gain in boiler efficiency by 0.48%
- Carried out replacement of baskets in both APH of Unit-2, there by savings 380 kWh in ID Fan power consumption & gain in boiler efficiency by 0.21 %
- Replacement of passing recirculation CV of BFPs (2 no's), thereby saving 477 kWh power consumption.
- Replacement of all CT fans in Unit-1 with ENCON make fans resulted in saving of 7 kCal/kWh in heat rate.
- Optimization of condensate extraction pump (CEP) discharge pressure to reduce power consumption resulted in saving of 400 kWh

## **JSW HYDRO ENERGY LTD**

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

Hydro power generation itself is considered as renewable source of energy. Since both the projects under JSWHEL are run-of-river hydro scheme, with no large pond and no emission of greenhouse gases, both helps in the sustainable development under clean development mechanism.

Moreover, for energy efficiency following initiatives has been taken:

- Energy Saving by Installation of Heat Pumps at four different locations at JSWHEL.
- Energy saving by replacement of inefficient lighting system by energy efficient LED lighting.
- Constantly monitoring the performance of electrical equipment, DG sets etc.
- Carryout energy audits at regular intervals to increase the efficiency of the plant equipment.

A solar plant of 1.06 MWp capacity is planned to be installed this year at Sherpa Camp to further strengthen its commitment towards clean environment by focussing more on renewable.

## **JSW Energy Barmer**

Carried out optimization of Ash handling compressor System so as to reduce compressor running hours.

- Interconnection of PA and SA duct carried out for Auxiliary power reduction leading to saving of 70 KW/unit.

- APH tube replacement done on periodic basis to reduce Auxiliary power consumption.
  - Provided pneumatic gate valve in vent line from slag cooler outlet to APH leading to saving of 25 KW/unit.
  - Helium leak detection test done to assess air ingress and thus improve condenser vacuum. The same leads to heat energy savings
  - Monitoring of High heat drains after every shutdown/start up to save energy.
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.

NIL

#### **Principle 7:**

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 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**

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

Considering the remoteness and difficult conditions of the rural areas, programs have been designed to address the issues of literacy, women empowerment, drinking water and sanitation, public health in general and maternal and child health in particular. Creation and restoration of community infrastructures and improvement in farm productivity along with vocational skill development of rural youth is also undertaken to attain an overall improvement in quality of life of the people.

JSW Energy Barmer Limited involves in following CSR programs:

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

JSW Energy Limited, Ratnagiri involves in following CSR programs

- Agriculture development
- Educational development
- Skill development and employability through vocational training

- Women empowerment through SHGs.
- Preventive & curative health and sanitation, Biogas construction.
- Watershed development.

JSW Hydro - JSW Hydro Energy Limited, Sholtu involved in following CSR programs

- Improving living conditions
- Promoting social development
  - Women empowerment through SHGs
  - Infrastructure development of educational institute
- Rural development projects
  - Village roads and paths
  - Soil and water conservation – Irrigation and drinking water schemes
  - Drip irrigation scheme
  - Development of Community Grounds
- Ensuring environmental sustainability- Mass plantation through afforestation
- Promotion of Sports development.

JSW Energy Vijayanagar - Yes, JSW Energy Ltd considers its economic, environmental and social responsibility to foster sustainable development as well as add value to the local community in which it operates. The policies which support this principle are Sustainability, Environment and Community Relations (CSR) policies. The programs/initiatives are majorly embedded from a CSR perspective.

The summary of Key programs/initiatives are

- Improving Living Conditions
- Promoting Social Development
- Rural Development Projects

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

All these programs, at different plant locations are run both through in-house independent teams, own foundation (JSW Foundation) and also in collaboration through NGO's / Govt structures etc

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

Most of the projects and initiatives run into a few years and the impacts of the activities will be measurable after project completion or later. However, tools are in place to assess the impact of the various community interventions. Also, the Company conducts periodic assessment of its work through a third party and incorporate its recommendations in alignment of our program. Last assessment was conducted in year 2016 through Institute of Development Studies, Jaipur.

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

<b>Sr. No.</b>	<b>Category as per the Companies Act</b>	<b>JSWEL Consolidated (₹ lakh)</b>
1	Improving Living Conditions	<b>782.97</b>
2	Promoting Social Development	<b>668.34</b>
3	Addressing Social Inequalities	<b>77.37</b>
4	Addressing Environmental Issues	<b>95.16</b>
5	Preserving National Heritage	<b>105.00</b>
6	Promotion of Sports	<b>247.82</b>
7	Rural Development Projects	<b>364.44</b>
8	Swachh Bharat Abhiyan	<b>53.57</b>
9	Administration and Capacity Building	<b>86.45</b>
10	Project Management Cost	<b>35.77</b>
<b>Total</b>		<b>2,516.89</b>

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.

Identification and prioritization of community initiatives is done through participatory exercise at village level which is further endorsed by Gram Panchayats. Implementation of mutually agreed interventions is done in participation of PRI members and community volunteers including women stakeholders; therefore, they are well received by the end user and further maintained by the community and Gram Panchayats.

### **JSW Energy - Ratnagiri**

JSW Energy has arranged check dams in vicinity of villages for water availability during the summer and also the increase the crop production.

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.

#### **1) Haldi Kum Kum Programme:**

With the objective of create awareness about entrepreneurship among the village women, we have organized Haldi Kum Kum Program for Jaigad Panchcroshi women, on the occasion of Magi Ganesh Jayanti. We had display the all products which is made by SHGs. Around 1000 women were present.



## 2) Special village Health check-up camps:

To improve access of Below Poverty Line (BPL) and Above Poverty Line (APL) families to quality medical care for identified specialty services requiring hospitalization for surgeries and therapies or consultations through an identified Network of health care providers.

With the collaboration of Lotalikar Hospital Ratnagiri and JSW Energy Ltd. we had organized Village health check-up camps at Jaigad Panchcroshi villages. In this camp ECG, BP, Random Sugar and general check-up have been done. Total 616 patients attend the camp and 151 patients referred to further check-up at Lotalikar Hospital Ratnagiri.

Zihla Parisad and panchayat member addressed the villagers about various government schemes related to health.



## 3) Sports:

### 20<sup>th</sup> Maharashtra State Karate Competition:

17 students of JSW Sports Academy- Jaigad High School had participated in 20th Maharashtra State level karate competition held at Alibag, Raigad on 27th January 2019. Own the 1 Gold, 10 Silver & 32 Bronze Medals.

We have felicitated the sport students with the presence of Electrical HOD- Mr. Paramjit Singh.





#### 4) Khandla High school Wall compound costruction:

With the objective of infrastructure and Education quality development of Panchcroshi schools, improvement of infrastructure of Khandala High School, wall compound foundation stone by the HOP-JSWEL Ratnagiri and school mangement . 1400 students are studying in the High school.



#### 5) Organic Farming:

To create awareness about organic food, import ants and motivate farmers towards organic farming we have given organic farming training to farmers. Farmers are well accepted this activity and moving towards organic farming. In DIZ area one farmers group formed under society act (28 members). Farmers had conducted monthly meeting at farmer's farm and discussed about various issues, successful farming stories, etc. He also started an organic vegetable stall twice in a week since Dec. 2018. For sustainability of organic vegetable, we have installed 10 shade net house, with the co-ordination agriculture department. Farmers will be



received 50 % subsidy against total project cost (8 lakhs) and remaining are bank loan.



### **JSW Energy – Barmer**

**Detail of various programs implemented is as below:**

#### **HEALTH, NUTRITION & SANITATION**

- Eye testing done and spectacles provided to 500 students & 1650 elderly villagers in 'Vision Testing cum Spectacle Distribution Camp'
- 761 people provided with medical treatment conducting 13 nos of Medical Camps
- 'Shala Swasthya Programme' conducted in 08 Govt. schools wherein 355 students participated
- 'MAM' project covered 70 AWCs of 3 blocks, i.e. Barmer, Baytoo & Ramsar targeting 1136 underweight children. Achievement summary:
  - Red to Green : 3.26%
  - Red to Yellow : 17.96%
  - Yellow to Green : 39.08%.
- 43 nos of IHLs constructed covering 2 Gram Panchayats.





### SAFE DRINKING WATER and RWH PROJECTS

- Piped water supply of 3.5 lakh liter/day to a cluster of 04 villages.
- Installation of Hand-pump in 40 villages covering 14 GPs.
- Restoration of Community Rain Water Harvesting Pond (Sura Naadi of , Sura Charnan GP). It was a completely abandoned pond due to damaged band, silt deposition and weed infestation in the catchment area. After restoration work, the water body will be capable of harvest and store more than 12000 CuM rainwater, which will be life saving for the domestic as well as range of wild animals.





## EDUCATION

- Theatre In Education initiative in 7 schools to provide orientation on learning through theatrical art to 208 students
- Scholarship awarded to 4 students of DIZ villages to facilitate their technical education:
  - ITI Jasraj Garg, Bhadresh village for doing ITI
  - Shivani Garg, Bhadresh for doing IIT
  - Mahesh Prajapati, Ishwarpura for doing B. Tech
  - Jadish Durgaram, Bhadresh for doing ITI
- Provided 1 no of additional computer teacher to Govt. Sr. Sec. School, Bhadresh
- Developed 'Computer Lab' in Govt. Upper Primary School, Gandhav through providing 5 nos. of computers
- Provided internet connectivity in 2 nos of Govt. schools.



## EMPLOYABILITY ENHACMENT SKILL TRAINING PROGRAMS

- Training course on tailoring work imparted to 70 village women at 02 training centers
- Computer orientation training imparted to 45 boys and girls at 02 Computer centers
- ELSTP training provided in two trades Textile operator & Hospitality Management. Trained 60 nos. youth and 33 have got placement/jobs
- Construction of Vocation Training Center
- Installation of paper waste recycling unit at VTC



## LIVELIHOOD CREATION

- Provided applique, embroidery, patchwork and pottery art training to 187 women SHG members of Bhadresh & Bishala Gram Panchayats
- Development of 04 units of Community Pasture Land (total 180 Bigha) at 03 Gram Panchayats
- Development of 06 units of Waadi (small fruit orchard) at Bhadresh & Chuli Gram Panchayats.





## PROMOTION OF TRADITIONAL ART & CULTURE

- Conservation of traditional folk music of Barmer
- Procurement of antique furniture & lights for Kuldhara
- Provided support to celebrate & promote national and local festivals





## ENVIRONMENT PROTECTION

- Roadside Plantation for shade and birds perching; and construction of 630 nos. tree guards at Bhadresh village link road
- Contribution in Mukhyamantri Jal Swablamban Abhiyan (MJSA) Phase-III. Support to this flagship water conservation program was recognized by the government at high note and Central Minister felicitated CSR- Head, JSWEBL in a grand state level program.



## BASIC INFRASTRUCTRE DEVELOPMENT

- Construction of community hall at Langer village.
- Construction of 02 classrooms at Govt. Upper Primary School, Gudisar.
- Construction of 01 classroom at Govt. Sr. Sec. School, Bhadresh.
- Construction of Activity Stage at Govt. Upper Primary School, Guruon Ka Bass, Bhadresh.
- Repairing and furnishing of Atal Seva Kendra (State Govt's community service KIOSK), Gram Panchayat, Bhadresh.
- Repairing of community hall Meghaniyo Ki Dhani village Kamoipura.





## **JSW Energy Vijayanagar Ltd**

Yes, JSW Energy Ltd endeavors to have maximum community participation in CR initiatives, as CR initiatives are implemented based on a collaborative and participatory approach. All initiatives are designed to empower the communities through knowledge transfer and trainings to sustain the project after completion. Regular Interactions with local community are carried out to ascertain and identify the needs and accordingly plans are prepared to address those needs.

### **I IMPROVING LIVING CONDITIONS**

#### **1) Support to Mid Day Meal Scheme- School Children**

Support to Mid Day Meal Scheme to 1,30,000 children by providing PRS and erection and commissioning of new 2 ton Boiler, Solar 50KW Power installation and connectivity thereby reducing the production cost of Mid Day Meal



#### **2) Soil & Water Conservation –Doubling Farmers Income**

To stabilize the watershed management model developed by JSW ICRISAT and scale it upto surrounding area, to enhance productivity and profitability of farmers community in Ballari District. Installation of weather stations, rain gauges and equipment to collect data on rainfall, air and soil temperature, monitor runoff rate, soil loss etc.

Soil testing, Chilli Cultivation Workshop, review of Chilly growth and review of program implementation by HOP JSWEL along with his Team at site



### 3) Health Camps at DIZ Villages and surrounding Villages:-

Research shows that the healthcare needs of individuals living in rural areas are different from those in urban areas, and rural areas often suffer from a lack of access to healthcare. Differences are the result of geographic, demographic, socioeconomic, workplace, and personal health factors. For example, many rural communities have a large proportion of elderly people and children. People living in rural areas also tend to have poorer socioeconomic conditions, less education, higher rates of tobacco and alcohol use, and higher mortality rates.

People in rural areas generally have less access to healthcare centres. The lack of healthcare workers has resulted in unconventional ways of delivering healthcare. In Starting period there was no Ambulance service available in our DIZ to access the medical facility in the city or Primary health centre **Toranagallu**. The individuals have to travel five times the distance (an average of 10 km to access the medical service.



Persons from rural areas report higher rates of smoking, exposure to second-hand smoke. Low rates of fruits and vegetable consumption in the rural area. Since the mid-1980 increased attention on the discrepancies between healthcare outcomes between individuals in rural areas. Governments and non-governmental organizations provide required medical services for rural areas governmental healthcare centres.

On this background, JSW energy ltd started health care activity from 2008.



#### **4) Nutrition Awareness & Culmination of Tobacco Addiction in Collaboration with District Anti Tobacco cell: covered about 3250 school children in 15 schools**

To provide a platform for primary and high school students of 15 schools to learn about effect of lifestyle modifications on their future health and School Children are given awareness about:

(1) ILL EFFECTS OF TOBACCO (2) GOOD NUTRITIONAL PRACTICES

IEC Corner in 5 model Schools, Lectures from JSWEL TEAM and District Anti Tobacco Cell Team members at Schools,





## II) Promoting Social Development:-

- RO Plant drinking water at P K Halli, Govt School, benefited 500 school children
- Science Park at Toranagallu – benefits around 15000 school children
- Provided Computer, Student Desk, Table and Chair to Govt School
- Construction of JSW Model Toilet at Govt School, Veniveerapura





### **III) RURAL DEVELOPMENT PROJECTS:-**

Development of Community Health Centre at Torangallu, construction of Compound Wall and Drain and developing hygienic environment for the Hosptial.  
Ankalamma School Compound Wall Construction Completion.



## **JSW Hydro Energy Sholtu**

### **1. Promoting Social Development**

- a. **Pre Primary Education Program:** The 3<sup>rd</sup> phase of the Pre Primary Education has been completed in FY 2018-19. This program was conducted in all 78 Anganwadi Centres of DIZ. 06 Model Anganwadis were also set up and learning material was provided. Total 400 Children were benefitted.





- b. **Vocational Training on Handloom:** To make the women of the area self sustainable, two handloom training centres are being run in Gram Panchayat Brua and Shong under our theme **CHARKHA**. In these centres, 40 women are being provided training, for nine months, through professional trainers.



- c. **Infrastructural Development of educational institutes:** Under the education initiative, the construction of a Govt. Primary school building was completed. The renovation work of Govt. Primary and Middle School, and Anganwadi Bhawan in Gram Panchayat Punang was also done.



- d. **Life skill and adolescent education programme:** To spread awareness regarding mensrual hygiene, Life skill and Adolescent education program was conducted in all 27 Govt Schools of DIZ. Total 1000 girl students and female teaching cum non teaching female staff were covered under this program conducted through a

professional NGO. Also screening for anemia was conducted and a herbal tonic named SPRILINA was distributed to 79 girls found Anemic. The main objective is to eradicate anemia from the area.



## 2. Rural Development Projects:

- a. **Development of Community Play grounds:** To promote the sports in the community, 02 playgrounds have been developed in the area. Also, the view point at Tourism place Sangla has been developed to promote the tourism in the area.



- b. **Soil and water conservation:** Under this initiative, 03 irrigation schemes for 03 Gram Panchayats has been established which is benefitting around 2000 population of 03 Gram Panchayats. A drinking water scheme is under progress which upon completion will benefit around 1200 population. 01 drip irrigation scheme for 01 Panchayat has also been established in community apple orchard having 300 plants which will benefit around 1200 population.





- d. Village roads and Paths:** To improve the connectivity of the inhabitants, 02 village roads having total length of 1500 metre and 03 paths having total length of 1200 metre have been developed.



### 3. Ensuring Environmental Sustainability:

To promote use of renewable source of energy, 40 Solar street lights have been installed in 03 Gram Panchayats.

Also to conserve the soil erosion in the area and increase the green vegetation cover, mass plantation drive has been initiated in the area since FY 2016-17. In FY 2018-19, around 4300 saplings of various species have been planted in participation of Local Panchayats, Yuvak Mandals and school students so as to spread awareness among the community.



#### 4. Promotion Sports development:

To promote the sports in the area, JSW HEL has initiated various activities under the theme SHIKHAR. There is a huge talent in boxing in this area and keeping in view of it, Boxing rings with enclosure, providing Boxing equipments to the trainees, cash prize to boxers for medal winning in state and national level events etc.

In FY 2018-19, a boxing ring with enclosure has been established at Urni where around 50 trainees are practising boxing on daily basis. Regular training sessions are being conducted at Sangla and Urni training centres and nutritious diet also being provided to them.



#### Principle 9: CUSTOMER SATISFACTION

1. What percentage of customer complaints/consumer cases are pending as on the end of financial year.  
NIL



2. 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)  
NA.
3. 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.  
NIL
4. Did your company carry out any consumer survey/ consumer satisfaction trends? Since the business primarily is with customers from Govt entities, with whom the company continuously engages / interacts, no formal survey has been done