



ENVIRONMENTAL STATEMENT

[Form – V]

Reporting Period: FY 2024 - 25



JSW Steel Limited, Salem Works, CPP-II

Submitted by:
JSW Steel Limited., Salem Works, CPP II
Pottaneri (P.O), Mecheri,
Mettur-(Tk), Salem(Dt)
Tamil Nadu, India, 636453

FORM-V

(Rule 14 of The Environment Protection, 1986)

Environmental Statement for the financial year ending on 31st March 2025

PART-A

1	Name and address of the owner, occupier of the industry Operation or process	Mr. B. N. S. Prakash Rao Executive Vice President, Plant Head JSW Steel Limited, Salem Works Pottaneri & M. Kalipatti Village Salem District – 636 453
2	Industry category- Primary	Red – Large
3	Production Capacity	Captive power - 3 X 30 MW
4	Year of establishment	2006 & 2019
5	Date of the last Environmental Statement submitted.	20.09.2024

Production details against the Consent quantity

Sl. No.	Description	Unit	Consented Quantity	Actual Quantity
Product details				
1	Power generation (Captive)	MW	90	66.75

PART - B

Water and Raw Material Consumption:

1. Water consumption in m³/d @ 365 days

- i. Process : 33 m³/day
- ii. Cooling : 3504 m³/day
- iii Domestic : 19 m³/day

Sl. No.	Name of Products	Specific Water consumption per unit of product	
		FY 2023-2024	FY 2024-25
1	Captive power (m ³ /MWH)	2.19	2.19

* 2 no. of WCC & 1 no. of ACC

2. Raw material consumption and production

Sl. No.	Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			FY 2023-2024	FY 2024-25
1	Coal (MT)	Power Generation	129087	117239
2	Biomass (MT)		6952	9622
3	LDO (KL) for startup		36	23
4	Bed Material (MT)		407	595

Part C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

(a) Water Environment:

Sl. No.	Pollutants	Quantity of Pollutants discharged (Kg/day)	Concentration of Pollutants discharged (mg/l)	Percentage of variation from prescribed standards with reasons
1	Pollutants discharged due to the sewage of Plant STP	NA	NA	--

As per the CTO the consented quantity of sewage generation is about 3.7 KLD which is treated through septic tank and followed by soak pit.

As per the CTO the approved quantity of trade effluent generation is 705 KLD from CPP II – 90 MW, the year average trade effluent generation is about 532 KLD, and the same is sent to Steel Plant Guard Pond facility for collection, storage, treatment and reuse in Steel plant as per the Consent. In the CPP II online analyzers like pH, TSS and Temperature are installed (trade effluent pit discharge) and the real time values are connected with WQW, TNPCB and CPCB servers. There is no Sewage or trade effluent discharge within or outside the premises.

(b) Air Environment

Details of the Stack Emission from the Plant

The details of the average stack emission for the year 2024 – 25 are given below

Sl. No.	Pollutants prescribed	Prescribed limits (mg/Nm ³)	Quantity of pollution Discharged (kg/day)	Con. of pollution in Discharged (mg/Nm ³)	% of variation from Prescribed Standards with reasons.
1	SPM	50	69.04	432.4	No variation. Air quality parameters are within the prescribed standards by TNPCB.
2	SO ₂	600	1359.28	508.5	
3	NOx	450	1157.24	439	

**PART D
HAZARDOUS WASTES (Generation)**

As specified under Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

(a) From process

Sl. No.	Haz. Waste Category	Hazardous Wastes generated	Authorization Qty. as per HWA (MT/Annum)	Total Quantity (MT)	
				2023-24	2024-25
1	3.3	Sludge and filters contaminated with oil	0.5	0.48	0
2	5.1	Used / Spent oil	3.5	16.23	19.86

3	5.2	Wastes / Residues containing oil (Used Grease)	2.5	-	0.22
4	5.2	Waste / Residues containing oil (Oil Soaked cotton Waste)	3.5	0.90	0.93
5	33.1	Discarded containers / Barrels / Liners contaminated with hazardous waste / Chemicals	2.0	0.65	0.17
6	35.3	Chemical Sludge from wastewater treatment	20.0	0	0.51
7	35.3	Chemical Sludge from wastewater treatment (ESEP)*	5.0	0	NA

- As per the CTO dated 08.04.2022, Unit 3 (1 x 30 MW) Trade Effluent 5 KLD is also connected with Steel Plant Guard Pond for treatment and disposal. Hence, Elevated Solar Evaporation Pan not applicable and salt generation also not applicable.
- Used oil generation of 19.86 MT during the capital shutdown of CPP II (STG#2) which is 10 years once activity. The same was disposed to authorized recyclers which has been communicated to your esteemed office vide reference JSWSL/CPP-II/ENVT/TNPCB/HWA/2024-25/81 dated 25th Sep. 2024

(b) From Air Pollution Control Facilities

No Hazardous waste generated from APC measures.

Disposal quantity under the Batteries Waste Management Rules, 2022

Sl. No.	Battery Waste disposal	Total Quantity (MT) Disposal	
		FY 2023-24	FY 2024-25
1	Lead and lead compounds (Used Batteries)	4.538	6.340

**PART – E
SOLID WASTE (Generation)**

Sl. No.	Solid Wastes	Total Quantity (MT)	
		FY 2023-24	FY 2024-25
a.	From Process		
i	Used Bed material	-	750
ii	Fly ash	NA	NA
b.	From Pollution Control Facility		
i	Fly Ash including ESP	9335	7585
c.	Quantity of recycled or re-utilized within the plant		
i	Used Bed Material	0	0
ii	Fly Ash	0	0
d.	Sold/Disposed		
i	Used Bed Material	381	801
ii	Fly ash	9410	7602

PART – F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

TPA- Tonnes per Annum

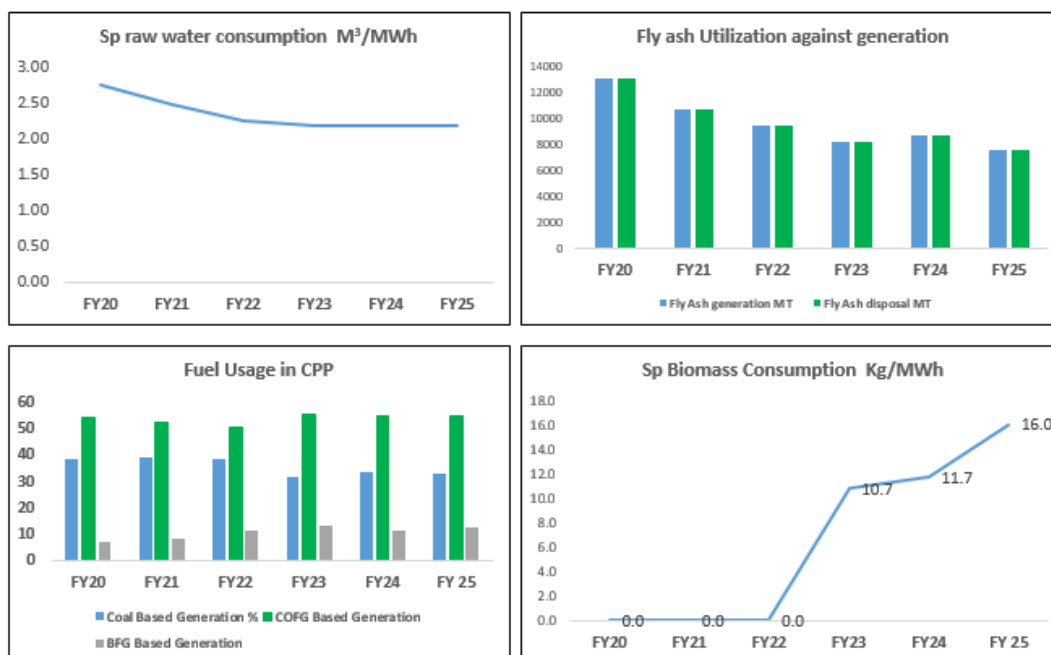
Sl. No.	Description of the Waste	Characteristics	Disposal Quantity (TPA)	Method of Disposal
Non Hazardous Waste				
1	Used Bed Material	Non Hazardous	801	Reused in AFBC boiler
2	Fly Ash	Non Hazardous	7602	100% disposed to Fly ash bricks manufacturing units
Hazardous Waste				
1	Sludge and filters contaminated with oil	Hazardous	0	Sent to TNPCB authorized agency
2	Used / Spent oil	Hazardous	18.69	Sent to TNPCB authorized agency. In this 18.69 MT used oil generated during the shutdown activity (STG 2 – 10 years once activity) was disposed to authorized recycler.
3	Waste / Residues containing oil (Used Grease)	Hazardous	0.22	--
4	Waste / Residues containing oil (Oil soaked cotton waste)	Hazardous	0.84	Sent to TNPCB authorized agency
5	Discarded containers / Barrels / Liners contaminated with hazardous waste / Chemicals	Hazardous	0.07	Sent to TNPCB authorized agency
6	Chemical Sludge from wastewater treatment	Hazardous	0.32	--
7	Chemical Sludge from wastewater treatment (ESEP)*	Hazardous	0	As per the CTO dated 08.04.2022 unit 3, Trade Effluent 5 KLD is also connected with Steel Plant Guard Pond for treatment and disposal. Hence, Elevated Solar Evaporation Pan has been removed.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

The implementation of ISO 14001 lead to cost savings through the reduction of waste, energy consumption, and other resources and enhanced its overall competitiveness. Pollution control measures adopted have several positive impacts on conservation of natural resources and cost savings. These measures often brought resource conservation & waste reduction, energy efficiency, water conservation and improvement in the air quality.

Sl. No.	Measures adopted	Impact on Conservation of natural resources
1	Minimize Coal consumption	Maximize power generation through Waste heat and usage of Biomass in coal-based boiler. Resulted in reduction of CO ₂ emission as well as minimize the natural resource depletion.
2	Water/Effluent	As a part of long term, planning targets set and achieved for reduction of specific water consumption and it is a continual process. (Graph attached below). Out of 90 MW power generation 60 MW generation is installed with Water Cooled condenser and 30 MW is installed with Air Cooled Condenser.
3	Fly ash utilization	Since minimize the usage of coal consumption for power generation with low ash coal (8-10%) the entire fly ash generated from the coal based boiler is 100% disposed to Fly ash brick manufactures.
4	Sustainable Practices	Use of sensible heat, BF gas as fuel in order to reduce fuel/energy consumption and intern reducing GHG emissions to achieve Annual targets. During FY 25, 887 m ³ rainwater used for secondary cooling applications. Initiatives taken to enhance the usage of rainwater for cooling applications.



Environment KPIs Performance during FY 25

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution.

In FY 2025, around 7,225 saplings planted within the plant premises and 5,050 outside. JSW Salem Works has enhanced its green cover to approximately 91 hectares, comprising around 34% of the total land area. With a tree survival rate ranging between 85–90%, However, a comprehensive tree count study is under progress and experts from Periyar University is engaged for the same. this reflects our commitment towards environmental stewardship.



World Environment Day Celebration June 2024



World Water Day Celebration March 2025

PART – I

MISCELLANEOUS

Corporate Social Responsibility:

JSW is committed to improving the quality of life of the community. Our focus has been on all round improvement of the community through our Corporate Social Responsibility (CSR) and Corporate Environment Responsibility (CER). Our company has a robust CSR policy with emphasis on areas like Livelihood Initiatives, Education, Health, Infrastructure and Environment. Our strong association with Stakeholders i.e. local leaders and partnership helps us to understand the community needs and widen our reach. The details are attached as ***Annexure I***

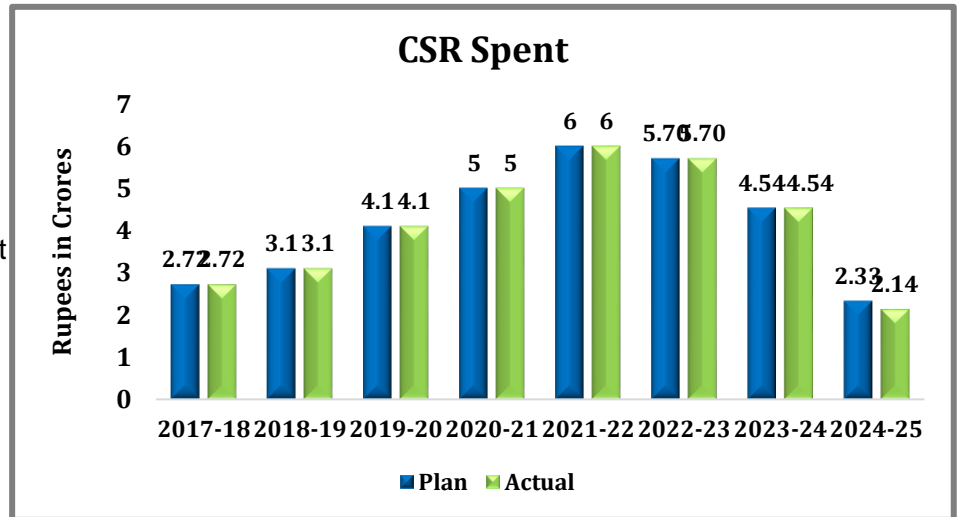
ANNEXURE 1

CSR DETAILS

CSR REPORT FOR THE PERIOD OF APRIL 2024 TO MARCH 2025

JSW is deeply conscious of its vision and responsibilities to the communities around the plant. Empowering citizen with better health, education and employment opportunities is JSW's mission. JSW is committed to improve the quality of life of surrounding communities through Corporate Social Responsibility (CSR) programs. We have well-laid community development programs under CSR. Our focus is on,

- Health
- Education
- Environment
- Women Empowerment
- Agri Livelihood
- Rural Infrastructure Development



People in Pottaneri, M.Kalipatti, Kuttapatti, Viruthasampatti, Gonur Panchayats and Mecheri Town are covered under our CSR projects. Our CSR spending for the financial year 2024-25 is Rs. 2.14 Crores.

VETERINARY CAMP:



A comprehensive veterinary camp was successfully conducted in Koppathanur village, located within the M.Kalipatti Panchayat. This initiative aimed to provide essential medical care to local livestock and pets, significantly benefiting the agricultural community in the area. During the camp, an impressive total of 354 cows, 22 calves, 126 goats, and 14 pet dogs received much-needed medical attention. This event underscores the importance of accessible veterinary services in rural areas, ultimately contributing to the economic stability and health of farming families in Koppathanur and beyond. The success of this camp serves as a model for future initiatives aimed at improving animal health and supporting local agriculture.

KITCHEN GARDEN:



The ASPIRE Team has successfully established two kitchen garden at government schools, created an engaging and educational initiative for students. These gardens focus on planting local and leafy vegetables, emphasizing the importance of organic cultivation practices. By utilizing organic methods, the initiative ensures that the students learn about healthy food production.

The students are considered the owners of the plantations. This hands-on approach encourages a sense of responsibility and pride among the students, encouraging them to take an active role in caring for the plants. Through daily maintenance activities, such as watering, weeding, and harvesting, students gain practical skills and knowledge about gardening, nutrition, and the

environment. Overall, this initiative not only enhances the school environment but also empowers students with valuable life skills. And cultivated vegetables are used for Mid-Day-Meal.

TRANSFORMING THE BUS SHELTER:

The Kuttapatti bus shelter has recently undergone a remarkable transformation, the dedicated efforts of community volunteers. In a collaborative initiative, the shelter was cleaned and painted, creating a vibrant and welcoming space for local residents and travelers. This project not only enhances the aesthetic appeal of the bus shelter but also serves a greater purpose by promoting important social messages.



The volunteers took the opportunity to incorporate themes of children's rights and the importance of education into the artwork. By featuring inspiring messages through image related to education, the newly painted bus shelter becomes a visual reminder of the community's commitment to nurturing the future generation. These messages encourage passersby to reflect on the importance of providing every child with access to education, thereby fostering a culture of learning and empowerment.

AGRICULTURE – INCREASED SHAREHOLDER:

Farmer Producer Organization had shareholders of 1400 and found that there were no shareholders from Pottaneri panchayat. HIHI has conducted a general awareness meeting in communities, during the awareness session 52 members were participated in the meeting and 49 members became shareholders of our FPO.



SUCCESS STORY OF THE MONTH:



The renovation of Puthur 3 roads pond in M.Kalipatti Panchayat has renovated with a water storage capacity of 3500 m³, the pond can now hold approximately 70 lakh liters of water annually. Due to the northeast monsoon, the pond is filled with 80% of water from its capacity. As a result, the surrounding community is reporting that one of the common wells (near the pond) has been filled with 75%. The well has been empty for the past 15 years, and it's only receives 15-20 % of its water during the rainy season. But after the pond renovation, the water level increased drastically by 75%

CHILDREN'S DAY CELEBRATION

On the occasion of Children's Day, we organized a special celebration at government schools in Mecheri to spread awareness about the rights of children. The event is aimed in educating both students and the community about the importance of safeguarding children's well-being and ensuring their access to education, safety, and protection. We took an additional step by pasting posters about the Child Helpline in various public places in Mecheri. to promote a safer environment for all children. This initiative aligns with our commitment to protecting the rights and welfare of every child in the area. Ensuring that everyone in the community knows where to turn in case of an emergency.



EYE CAMPS IN SURROUNDING VILLAGES:

We organized vision screening camps in nearby villages, aiming to help people with their eye health. In total, 20 camps were held, covering 30 different villages. During these camps, we were able to screen 2,670 people for eye problems. Through the screenings, we identified 129 people who needed single vision glasses, and 416 who required bifocal glasses. We also distributed 1,095 reading glasses directly at the camp, helping many individuals improve their vision on the spot. In addition to glasses, we found 311 people with cataracts. These individuals were referred to the local General Hospital (GH) for further treatment. The purpose of these camps was to provide essential eye care to those in need and help improve the quality of life for people in these communities. It was a successful initiative, and we are glad to have been able to support so many people.



DESILTED RAINWATER HARVESTING POND AT KUTTAPATTI:



A significant initiative has been undertaken to desilt and develop the rainwater harvesting pond at Kuttapatti, which is having transformative impact in local community. The pond, desilted to restore its capacity effectively to collect and store rainwater. This restoration has resulted in a rainwater harvesting capacity of 75,000 cubic meters of water per annum, a vital resource for the region, especially during dry periods.

The development of this pond is particularly beneficial to the surrounding agricultural land. Approximately 193 hectares of farmland in the area now

receive direct benefits from the harvested rainwater. The availability of this water supports irrigation during times of water scarcity, significantly improving crop yields and helping farmers maintain their livelihoods. In a region where water resources are often limited, this pond plays a crucial role in sustaining agriculture and enhancing overall agricultural productivity. The restored pond has become a symbol of resilience and resourcefulness in Kuttapatti village, ensuring both agricultural prosperity and water security for the future.

AGRICULTURAL INITIATIVES: HAND IN HAND:

As part of our agricultural initiative to promote sustainable agriculture and environmental conservation, we distributed saplings to 58 farmers in the region, covering a total area of 9 hectares. Total of 1,320 saplings were distributed to farmers, aimed at enhancing the green cover and improving agricultural practices. The saplings distributed included a variety of species selected for their suitability to local soil and climate conditions, ensuring their successful growth and long-term benefits. This initiative not only contributes to reforestation but also supports the farmers by increasing biodiversity on their lands and improving soil health.



AGRICULTURAL INITIATIVES: KRISHI VIGYAN KENDRA (KVK):



Through our agriculture initiative, 21 country hen chicks were distributed to farmers for rearing, providing them with an opportunity to boost up their income through poultry farming. The farmers were given guidance to care for the chicks, which were raised over a period of 52 days. During this period, the farmers earned a daily income of Rs. 120, resulting in a total income of Rs. 6,240 per farmer. This intervention benefited a total of 21 farmers, helping them enhance their livelihoods and gain financial stability.

CENTER FOR ENVIRONMENT EDUCATION:



As part of CEE project, journals and badges were issued to the students of Mecheri Girls' and Boys' Schools to encourage their participation in environmental sustainability activities. One of the activity organized an energy audit conducted at the schools, where students actively participated in assessing the usage of electrical appliances within the school premises. The students were tasked with observing and recording how electricity was being used, identifying areas of wastage, and suggesting ways to improve energy efficiency. To create awareness among students about the importance of conserving energy and the impact of excessive energy consumption on the environment. A total of 150 students from three schools participated in the audit, contributing their observations and ideas.

ENVIRONMENT:

A total of 350 saplings were planted at the Sathapadi Panchayat office as part of an environmental initiative aimed at promoting green spaces and enhancing the local ecosystem. The plantation drive was organized with the active participation of community members, planted a diverse variety of saplings. The initiative not only aimed to beautify the area but also contributed to improving air quality. By involving the community, the drive raised awareness about the importance of trees and the role they play in preserving the environment for future generations.



CENTER FOR ENVIRONMENT EDUCATION:



Distributed learning materials and journals to schools and students, ensuring they had the necessary resources for their studies. Also gathered feedback and suggestions from schools about how their existing sanitation systems were being used. This helped identify areas that could be improved for a cleaner and healthier environment. In addition, Conducted awareness programs on waste segregation in six different schools. These programs aimed to teach students the importance of separating waste into recyclables, non-recyclables, and organic waste. By doing this, encourage students to be more mindful of their environmental impact and to practice proper waste management in their daily

lives. Lastly, monitored students' daily food habits to ensure they were making healthier choices. This initiative was part of a broader effort to improve the overall well-being of students by encouraging them to eat nutritious meals, stay active, and live a healthier lifestyle.

AGRI-LIVELIHOOD ACTIVITY

Integrated Pest Management (IPM) is being implemented across 200 farmers cultivating 65 acres of diverse crops, aiming to reduce the dependency on hazardous pesticides. This sustainable approach focuses on combining biological, cultural, mechanical, and chemical control methods to manage pest populations effectively while minimizing environmental impact. One of the key innovations in this program is the introduction of Insect Solar Traps. These traps utilize renewable solar energy to attract and capture harmful pests, reducing the need for chemical insecticides. By integrating these solar-powered traps, farmers can monitor pest activity in real time, allowing for targeted pest control interventions that are both effective and eco-friendly. This technology also empowers farmers to take proactive measures, minimizing crop damage and enhancing yields. Overall, the project fosters a healthier, more sustainable farming environment by promoting biodiversity and reducing the negative effects of pesticide use, benefiting both the farmers and the surrounding ecosystem.



AGRI-LIVELIHOOD ACTIVITY – WATER

In order to reduce waterlogging and salinity issues, the promotion of Rain Guns has significantly improved water use efficiency. Rain Guns distributed water more uniformly across crops, ensuring optimal coverage while minimizing wastage. This technology helps conserve water resources, crucial in areas facing water shortages, while also reducing the risk of waterlogging and salinity buildup in the soil. Additionally, the support provided to install Drip Irrigation systems has enhanced the efficiency of water usage, especially in areas with limited water supply. Drip Irrigation directly delivers water to the roots of plants, reducing evaporation and runoff, which not only improves crop productivity but also lowers production costs. As a result of these interventions, 9 acres of farmland are now benefiting from improved water management practices. A total of 25 farmers are reaping the rewards of these innovations, experiencing higher yields, reduced expenses, and more sustainable farming practices.



CENTER FOR ENVIRONMENT EDUCATION ACTIVITIES

Green Mela was conducted in 6 schools, where the students of Eco-clubs from 6 different schools showcased a variety of environmental projects they had worked on throughout the year. The event highlighted a range of initiatives aimed at promoting environmental awareness among students. Some of the key projects included food diversification across three generations, which focused on incorporating diverse food practices. Additionally, students presented their work on composting and decomposing labs, where they learned about organic waste management and soil enrichment. Waste management projects were also a major focus, with students demonstrating ways to reduce, reuse, and recycle materials to minimize the environmental impact. The Green Mela also featured efforts related to school sanitation maintenance, emphasizing the importance of clean and



healthy environment for both students and staff. Overall, the event served as a platform for students to share their achievements.

Sl.No	Activitiy	Committed in lakhs(INR) for FY 25	Spent in lakhs(INR) From April 24 to Sep 25	Spent in lakhs(INR) From Oct 24 to March 25	Spent in lakhs(INR) From April 24 to March 25	Remarks
1	Climate resilient Agri - KVK	19.99	19.99		19.99	Completed
2	Climate resilient Agri - FPC	50.00	37.99	12.00	49.99	Completed
3	JSW Aspire Project	47.99	24.50	23.49	48.00	Completed
4	JSW Green Schools	2.90	1.45	1.45	2.90	Completed
5	Program Support-Community Development	2.00	0.063	0	0.063	Completed
6	Increasing Green Cover	19.59	0	19.59	19.59	Completed
7	Developing Public Health Facility	29.65	0	12.82	12.82	Completed
8	Integrated Water Resource Management	27.95	0	27.61	27.61	Completed
9	Infra support to educational inst	34.33	0	32.95	32.95	Completed
Total		2.3	83.9	129.9	214	