

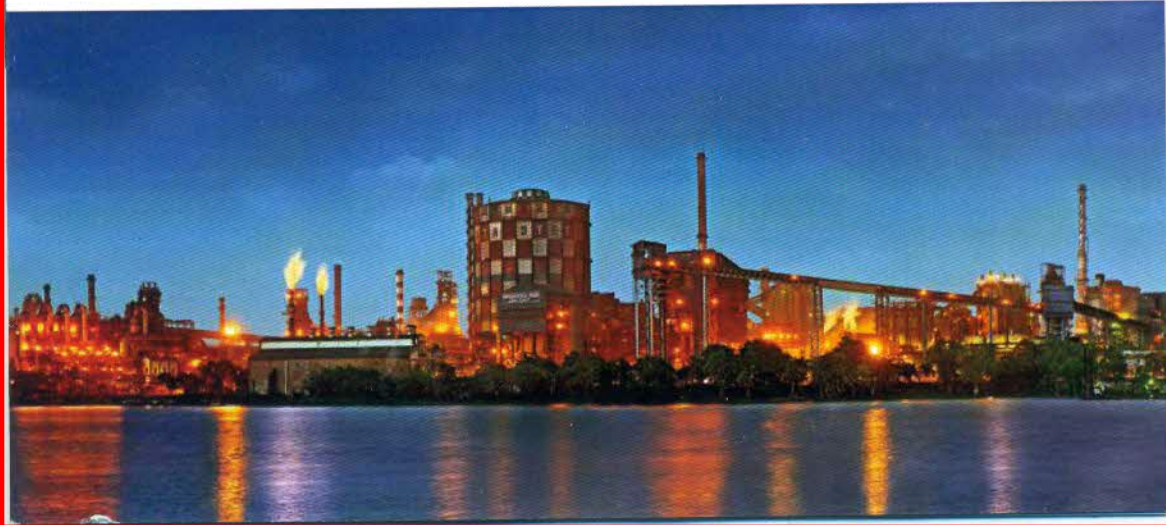


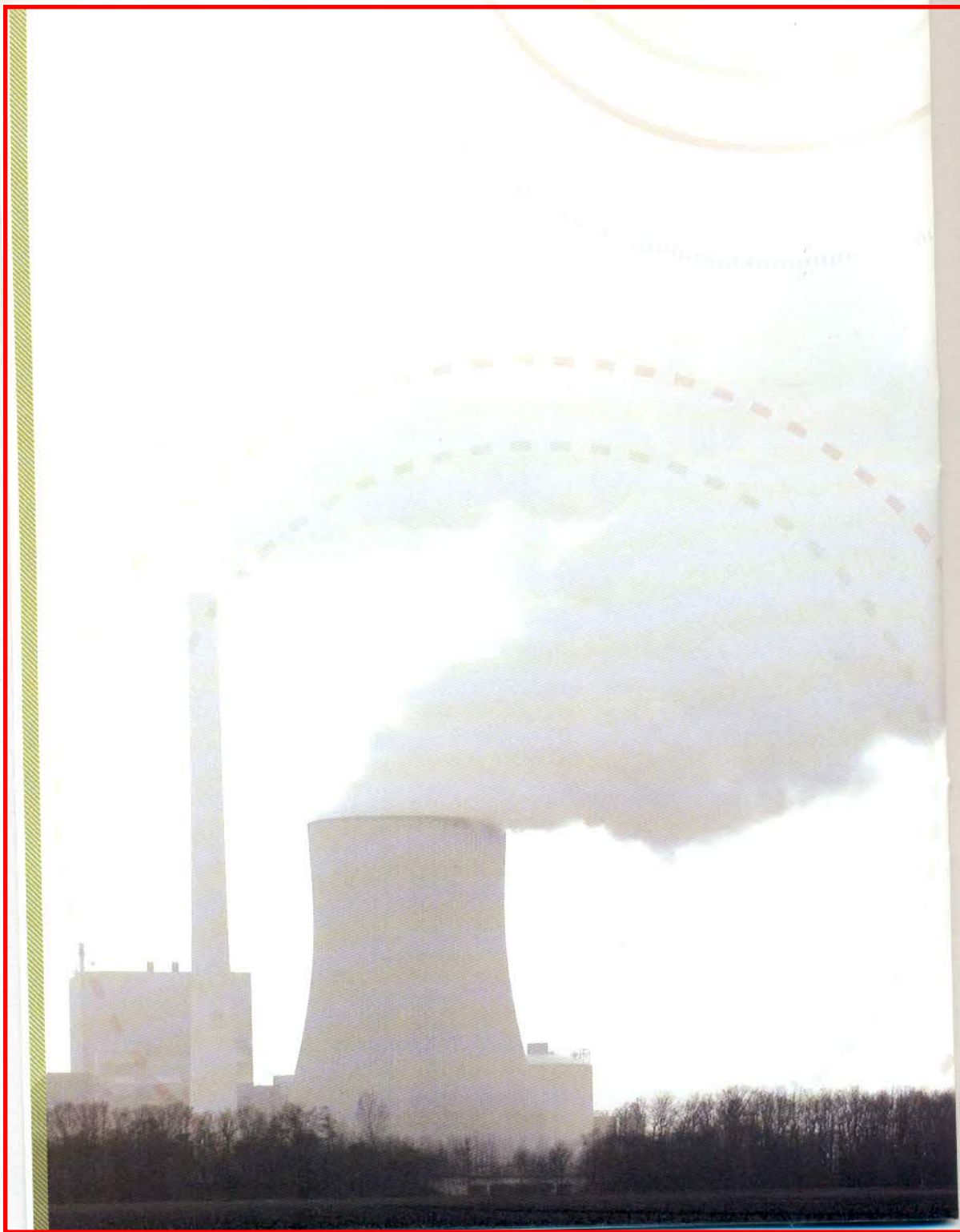
Jharkhand State Pollution Control Board
झारखण्ड राज्य प्रदूषण नियंत्रण पषर्द



Jharkhand Star Rating Program

The Star Rating Program is a novel initiative to maintain
transparency of environmental performance





About the Star Rating Program

The state of Jharkhand is home to 1000+ small to large industries, with 81 industrial plants belonging to the 17 high polluting sectors. Over the last few years, Jharkhand State Pollution Control Board (JSPCB) has taken numerous progressive steps to improve monitoring and regulatory framework for industrial emissions and that includes installation of 136 continuous emission monitoring systems (CEMS) in industrial plants and going online with the process for consent to operate and consent to establish, among many others. In line with international best practices, JSPCB has also made available real-time emission data on its website.

To further its vision of bringing the best-in-class expertise, JSPCB has collaborated with the University of Chicago Trust (UC Trust). The UC Trust, through the Energy Policy Institute at the University of Chicago (EPIC India) and the Tata Centre for Development (TCD), will assist JSPCB as knowledge partners, implementing the Star Rating Program for industries and other interventions.

The program utilizes continuously monitored emissions data from major industrial plants to categorize industries from 1-star to 5-star, i.e. from the least compliant to the most compliant. Besides informing the public and industries, the program also aims to encourage healthy competition among industries for better regulatory compliance to reduce emission.



Key advantages:



Providing industries with information on their emissions may prompt them to improve operational efficiency by adopting better technology or upgrading their emission control devices to decrease particulate matter emission;



Industries with low emission get recognized and further encouraged to reduce emissions;



Providing information to public about emissions status of the industries will create awareness among locals and create community pressure on industries to comply with the norms;



The program uses online data already collected through CEMS, and thus, it has practically no cost with potentially high benefits;



Star Rating will be voluntary for industries and will gradually become part of the regulatory framework of JSPCB

Under this public disclosure program, JSPCB will inform the public and industries about the ratings through a dedicated dashboard in their website.

There will be routine monitoring and capacity building in this subject. The ratings will be given to the industries on monthly basis starting from June 2020.

How will the star ratings be calculated?

The star rating is based on two factors:



Exceedance of emission in terms of percentage over a period of a month compared with permissible limit (as per consent);



Data availability on daily basis as prescribed in CPCB guidelines.

Rating	Range of PM Emission (mg/Nm ³)		Rating Key	Representation
	Minimum	Maximum		
1 Star	250	-	Very Poor	★ ★ ★ ★ ★
2 Star	150	250	Poor	★ ★ ★ ★ ★
3 Star	100	150	Moderate	★ ★ ★ ★ ★
4 Star	50	100	Good	★ ★ ★ ★ ★
5 Star	0	50	Very Good	★ ★ ★ ★ ★

This table shows how ratings are calculated using average particulate matter emissions in the Star Rating Programs. Industries rated at 1 and 2 stars have average emissions that are greater than the regulatory standards.

How will industries be selected?

The Star Rating Program is restricted to Particulate Matter (PM) emissions. The program will be implemented in a phased manner starting as voluntary for the first year, and will eventually cover all the industries belonging to the 17 categories of highly polluting industries with continuously monitored data.

International experience

Environmental performance rating and disclosure has emerged as a tool for complementing traditional pollution regulations in developing countries. Indonesia's Program for Pollution Control, Evaluation, and Rating (PROPER), initiated in 1995, was the first such program in a developing country.

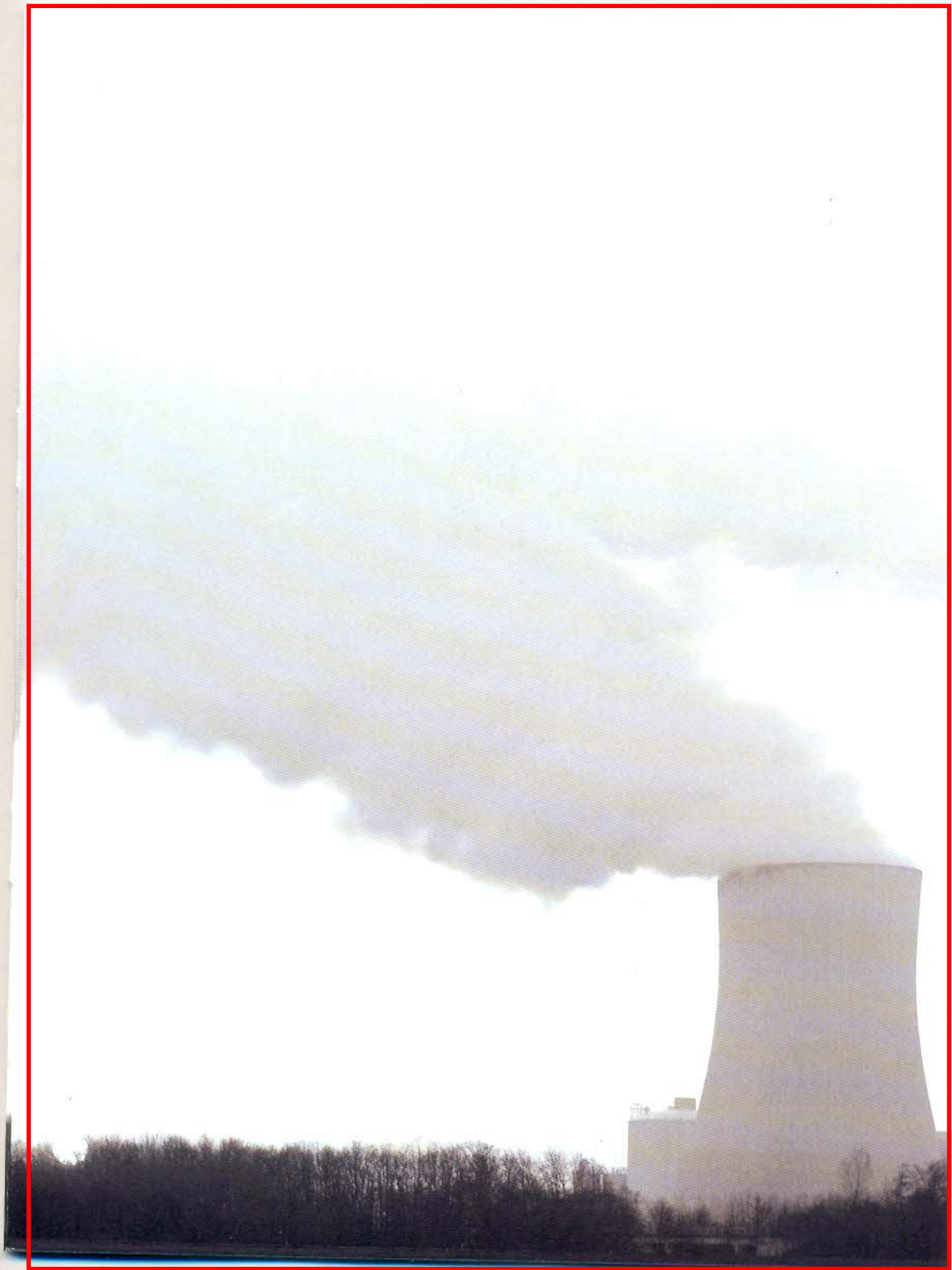
The program used a color-coded rating, ranging from gold for excellent performance to black for poor performance, as well as "reputational incentives." PROPER has had a significant effect in shifting factories from non-compliance to compliance.

Because of perceived overall success of PROPER, measured by reduced emission at a lower regulatory cost, many countries have established such programs for various industrial sectors. These programs include Philippines' EcoWatch, China's Green Watch, Vietnam's Green Bamboo and Ghana's EPRD.

India

EPIC India and TCD, along with other partners, have supported the Maharashtra Pollution Control Board to launch the Star Rating Program (www.mpcb.info) in June 2017 and Odisha State Pollution Control Board to launch its own Star Rating Program in September 2018. After Maharashtra and Odisha, Jharkhand will now become the third state in the country to launch a Star Rating Program for industries.





The launch of Jharkhand Star Rating Program

1st March, 2019

Organised by JSPCB

Time	Event
11:00- 11:05	Welcome
11:05- 11:10	Welcome Address by Member Secretary, JSPCB Sri Rajeev Lochan Bakshi
11:10- 11:15	Speech by Dr. Leni Chaudhuri, Country Director, TCD, University of Chicago Trust
11:15- 11:25	Key note address and presentation by Chairman of JSPCB Sri A.K. Rastogi
11:25- 11:30	Signing of MoU between JSPCB and University of Chicago Trust
11:30- 11:35	Address by PCCF & HoFF Dr. Sanjay Kumar
11:35- 11:40	Address by ACS Forest Sri I. S. Chaturvedi
11:40- 11:45	Address by Development Commissioner Dr. D. K. Tiwari
11:45- 11:50	Address by Chief Secretary Sri Sudhir Tripathi
11:50- 11:55	Thanks from the Forest Department
12:00- 12:15	Technical Presentation on Star Rating by Dr. Ken Lee, Executive Director, EPIC India
12:15- 13:00	Technical session on Forest Based Industries