

BOILER INDIA- 2024

RULES & REGULATIONS FOR THE COMPETITION OF BEST BOILER USER AWARD 2024

1. Download the form corresponding to your type of industry from the categories as mentioned below:
 - I. Power Plant
 - II. Captive / Co-generation (Steel / Cement / Chemical / Petrochem / Distilleries)
 - III. Sugar Factories
 - IV. Pharma / Chemical / Dairy / Hotels / Food
 - V. Textile Process Houses / Edible Oil / Paper / Ordnance / Distilleries / Animal Feed / AAC Blocks
 - VI. Sizing / Rice Mills / Other Small Industries including SIB type of Boilers.
2. Download the corresponding format of your industry as mentioned in Sr. No. 1.
3. **It is mandatory to submit hard copy of your entry form to:**

***The Director, Directorate of Steam Boilers, 7th Floor, Kamgar Bhavan, Plot C-20,
Block E, Bandra Kurla Complex, Bandra East, Mumbai – 51.***

Write the name of the category in which participating, on TOP of the envelope.

1. POWER PLANT

***The Director, Directorate of Steam Boilers,
7th Floor, Kamgar Bhavan, Plot C-20,
Block E, Bandra Kurla Complex,
Bandra East, Mumbai – 51.***

4. Last date for submission of Forms is 31.07.2024.

5. Out of the total applications received, the applications from each category securing highest marks according to evaluation system, will advance to the verification round of the competition.
6. The site verification process will be conducted at your works by the Committee members comprising of industrial experts nominated by the Directorate of Steam Boilers, Maharashtra State, specifically for this **BEST BOILER USER AWARD 2024** competition.
7. During verification the company will be required to furnish documents pertaining to the competition to the jury members. Major emphasis will be given to housekeeping, safety measures, visual charts, signboards, upkeep of boilers and other parameters required for trouble-free and safe boiler operations.
8. There will be three prizes in each category. Prizes will be distributed on **27th September 2024** during the Boiler India 2024 concluding ceremony.

9. In case of difficulties in filling forms, please contact:

CATEGORY NO.	CATEGORY	CONTACT PERSON & CONTACT NUMBER
1	POWER PLANT	SHRI. PRAMOD KATE: 9881820271
2	CAPTIVE CO-GENERATION (STEEL, CEMENT, CHEMICAL & PETROLEUM, DISTILLERIES)	SHRI. PRAMOD KATE: 9881820271 SHRI. AJIT JAWALE: 9987246751
3	SUGAR	SHRI. SUDHIR PATIL: 9850827966 SHRI. PRAMOD KATE: 9881820271
4	PHARMA / CHEMICAL / DAIRY / HOTELS & FOOD	SHRI. D. R. PARKALE: 9881611707 SHRI VIRAF KARANJAWALA: 9820038014
5	TEXTILE PROCESS HOUSES / EDIBLE OIL/PAPER/ORDNANCE / DISTILLERIES/ ANIMAL FEED / AAC BLOCK	SHRI. ABHAY PHADKE; 9422249499
6	SIZING / RICE MILLS / OTHER SMALL INDUSTRIES / SIB	SHRI. ABHAY PHADKE; 9422249499

10. The decisions taken by the Jury will be abiding and final.

11. If required, the jury shall call upon any additional information required from the participants.

BOILER INDIA- 2024 PARTICIPANT FORM
APPLICATION FOR BEST BOILER USER AWARD 2024
CATEGORY: POWER PLANT

A] Company Details:

Sr. no.	Details	To be filled by Participant
1	Name of Company	
2	Address of company, Contact No. & Email.	
3	Name of Boiler Inspectorate Regional office	
4	Contact person: Name, Designation, Email ID and Mobile No.	

BI BASIC DETAILS OF ALL REGISTERED BOILERS:

Sr. No.	Boiler registration Nos.	Fuel	Heating Surface in M ²	Type of Boiler	Boiler Capacity MW	Steam Pressure/ Temperature		Rate of Steam Generation TPH
						Kg/cm ²	°C	

Note: Please highlight the registered Boiler which is to be considered for the competition.

C] GENERAL INFORMATION:

SR. NO.	DETAILS	TO BE FILLED BY PARTICIPANT			
1	<p>Details of 5S activities (if implemented)</p> <p>Please attach at least 2 nos. coloured Photographs related with 5S activities in plant. Size of Photograph on A4 photo sheet paper for each activity.</p>				
2	<p><u>Housekeeping.</u></p> <p>Please attach at least 4 nos. coloured Photographs related with Cleanliness at the location of fuel bay, fuel handling plants, ESP area and fuel reject area. Size of Photograph on A4 photo sheet paper for each location.</p>				
3	<p>Present Emission levels of CO, SO_x, NO_x, and Suspended Particulate Matter. (Please provide data for all the boilers in your factory)</p>	Boiler No:			
		CO			
		SO _x			
		NO _x			
		SPM			
4	<p>Details of National Level/State Level Awards received related to Energy, Environment & Safety. (In last two years)</p>				

		FY	No of Tube failure	% loss of Generation due to boiler tube failure
5	Furnish consolidated data for:	2021-22		
		2022-23		
		2023-24		
6	Reported high severity incident / accident of boiler / in boiler house if any in 2022-23, 2023-24			
7	ISO standard adopted (9001/14001/45001/50001)			
8	Disposal of hazardous waste like thermal insulation, used oil, water treatment resins, oil-soaked cotton wastes, etc. in a environment friendly way.	Please furnish details.		
9	No. of Boiler Operation Engineers/ Boiler Attendants.			
10	Please attached photographs of BOILER INSPECTION KIT consisting of: a) Scale. b) Vernier Caliper. c) Inside Outside Caliper. d) Ball-peen hammer. e) Torch. f) Safety Goggles. g) Hand Gloves. h) Chalk. i) Helmet j) Drawings.			

D] KEY RESULT AREA, PERFORMANCE PARAMETERS (Design Vs Actual):

SR. NO.	DETAILS	TO BE FILLED BY PARTICIPANT						
		FY	2021-22		2022-23		2023-24	
	Design		Actual	Design	Actual	Design	Actual	
1	Furnish data of Plant availability factor & Plant load factor (%)	% AVF						
		% PLF						
		Heat Rate (KCal/kWh)						
		Specific oil consumption (ml/kWh),						
		Auxiliary power consumption (%)						

	FY	2021-22		2022-23		2023-24	
		Design	Actual	Design	Actual	Design	Actual
2 Boiler efficiency (%), Mill Re- ject %, % Unburnt, No. of Tripping of Boilers, Sp. Raw Water Consumption, Sp. DM Water consumption. Max continuous running days from last 3 years. Furnish details of any one Boiler.	Boiler Registry no.						
	Boiler Efficiency %						
	% mill reject						
	% Unburnt						
	Pulverized Fuel Fineness						
	Air / Fuel Ratio						
	Tripping of Boilers (No's)						
	Specific Raw water consumption Ltr/kWh						
	Specific DM water consumption Ltr/kWh						
	Maximum continuous running days of boiler over the last 3 years.						

3	Condition Monitoring (Please attach latest relevant records / related documents / test reports)	Vibration Monitoring readings of ID, FD and PA Fans	
		Lube Oil analysis of Mills and Fans for Viscosity, Moisture, Ferrous and Non-Ferrous debris	
		Condition Assessment of Pressure Part Components.	
		Monitoring and Control of O ₂ measurement and method like Grid / Orsat.	
		Dirty Pitot tube and Clean Air Flow Test for PF Flow and Velocity.	
		Furnace Temperature Mapping.	
		Air Pre-Heater Performance Test Report including APH Efficiency and Effectiveness.	
		Long Term Action Plan / Five Year Rolling Plan and its Implementation.	
		Ash Analysis Report for Monitoring, Slagging / Fouling / Clinkering Tendency (In line with Guidelines Issued by The Department for Promotion of Industry and Internal Trade, Gol.)	

E] PERFORMANCE ENHANCEMENT & GREEN INITIATIVES:

(Please provide data of last 2 years only)

SR. NO.	DETAILS	TO BE FILLED BY PARTICIPANT
1	Safety initiative adopted, including process safety consisting of – i. Boiler safety systems. ii. Operator training and competency iii. Safety Culture and Management Systems. (Including Contract Labour safety) iv. Details of trip logic / protection trials record.	
2	Best maintenance and operation practices implemented. i. Preventive maintenance program. ii. Condition monitoring techniques. iii. Outage Duration and Planning. iv. Predictive / Reliability based maintenance.	
3	Innovative Energy saving measures adopted. i. Waste Heat Recovery System. ii. Condensate Recovery and Reuse. iii. Boiler Blowdown Heat Recovery.	
4	Innovative performance improvement projects i. Innovative ideas implemented resulting in life extension factor and reduction in maintenance cost. ii. Advance control strategies. iii. Data acquisition and monitoring system. iv. Integration with plant operations.	

5.	Eco Friendly Environment Measures taken consisting of- i. Adherence to emission regulations. ii. Waste management practices. iii. Environment Management Systems.	
6.	% utilization of ASH. Describe method, explain briefly.	

WEIGHTAGE FOR THE DIFFERENT SECTIONS ARE AS FOLLOWS:

SECTION C] GENERAL INFORMATION	30%
SECTION D] KEY RESULT AREA, PERFORMANCE PARAMETERS	50%
SECTION E] PERFORMANCE ENHANCEMENT & GREEN INITIATIVE	20%
WEIGHTAGE FOR PERFORMANCE PARAMETERS OF KEY RESULT AREA OF OTHER BOILERS (*Will be assessed during physical verification.)	10%



DECLARATION:

Declared that the information furnished above is correct and authorized by our Company for nomination to “**BEST BOILER USER AWARD 2024**” competition organized by the Directorate of Steam Boilers, Maharashtra State, Mumbai and we shall abide by the rules & regulations of the competition, and we accept that the decision taken by the jury shall be final and binding on us.

Name of Company Authorized Person:

Designation:

Office No. (O):

Signature:

Company Seal: