

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.

3. SUGAR FACTORIES

***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: SUGAR

Note: Company can enter details pertaining to any one of their continuous working boilers in the competition.

<u>A] Company Details:</u>		
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.	

B. BASIC DETAILS OF ALL REGISTERED BOILERS:

Sr. No.	Boiler registration Nos.	Fuel	Heating Surface in M ²	Boiler Capacity TPH	Boiler Steam Pressure / Temperature		Process Steam Pressure / Temperature		MW Capacity (If Cogeneration)
					Kg/cm ²	°C	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	Please attach 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.			
2	Pollution control equipment used in boiler house. (ESP / Bag filters/ Cyclone Separator / MDC / Wet Scrubber / Not Applicable)			
3	Present Emission levels of CO, NO _x , and Suspended Particulate Matter. (Please attach related documents)	Boiler No:		
		CO		
		NO _x		
		SPM		
4	Is First Aid Box available in Boiler House?			
5	Mention major awards / recognition your company has received in respect to Energy, Environment & Safety in the last 3 years.			
6	Have there been any accidents at the boiler or boiler house in the last two years? If yes, give details.			
7	ISO standard adopted. (9001/14001/15001)			
8	No. of boiler attendants (1 st class, 2 nd class) & BOE working in boiler house.			

9	Type of Water Treatment Plant. (Softener / DM Plant / RO Plant)	
10	Submit sample document of daily logbook duly endorsed / checked by maintenance / operation in-charge? (1 each for last 3 Years)	
11	Submit screenshot of continuous emission monitoring system (CEMS).	
12	Level of CO, CO ₂ & O ₂ in boiler flue gases (Submit related documents)	%
13	Describe in brief condensate recovery system of your plant.	
14	Do you conduct walk through audit to identify steam leakages / losses? If yes, number of steam/condensate leakages identified and attended during year 2023-24.	
15	Number of breakdowns of boilers observed during the year 2023-24.	
16	List of Apparatus for Fuel analysis.	
17	List of Personal Protective Equipment provided for personnel in boiler house.	
18	Average Bagasse pol (Last Season).	%
19	Average Bagasse Moisture (Last Season)	%

20	Provide Steam to fuel ratio of last two seasons.	
21	Are the safety valve exhaust pipes and air vents taken outside the boiler house?	
22	Are the drain lines of gauge glass, headers and boiler blow down safely connected to blowdown pit / tank? Is the blowdown pit properly covered?	
23	Do you maintain Standard Operating Procedures (SOP) for boiler house?	
24	Are printed boiler operating instructions / safety sign boards displayed in boiler house?	
25	Any arrangement to recover flash steam in factory?.PI. mention.	
26	Describe in brief your emergency preparedness action plan.	
27	Provide number of planned mock drills carried out in year 2023-24.	
28	What is boiler feed water temperature in °C?	
29	What is boiler stack temperature in °C?	

D] PERFORMANCE PARAMETERS		
SR. NO.	DETAILS	TO BE FILLED BY PARTICIPANT
1	Maximum Days of continuous running of Boiler without forced breakdown.	
2	Give details of Boiler Water Analysis.	
3	Boiler gross & net efficiency (%)	
4	Heat Rate (kCal/kWh)	
5	Ratio of Bagasse produced to Bagasse Used in Boiler	
6	Power Exported per ton of Cane Crushed.	
7	Auxiliary Power Consumption of Boiler.	%
8	Electrical power generated (kWh/TC)	
9	Electrical power Consumed at Plant (kWh/TC)	
10	Specific Steam Consumption per Ton Crushed.	
11	Online Sugar test of condensate is available or not.	

12	Specific Raw water consumption (Litre/kWh)	
13	Specific Treated water consumption (Litre/kWh)	
14	Bagasse Saving (% with respect to Cane Crushed)	
15	Please attach Latest Relevant Records / Related Document / Test Reports of Vibration Monitoring Readings of ID, FD, and SA Fans.	

<u>E PERFORMANCE ENHANCEMENT MEASURES:</u>		
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. 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 such as ash disposal, wastewater disposal etc.	

WEIGHTAGE FOR THE DIFFERENT SECTIONS ARE AS FOLLOWS

SECTION C] GENERAL INFORMATION	50%
SECTION D] KEY RESULT AREA, PERFORMANCE PARAMETERS	30%
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: