

INSPECTORATE OF BOILERS, ASSAM  
BOILER OPERATION ENGINEERS' EXAMINATION, 2023

## **NOTIFICATION**

As per the Boiler Operation Rules, 2021 framed under the Boilers Act, 1923, Applications are invited from the candidates for Boiler Operation Engineers (BOE) Examination for the year 2023.

### **QUALIFICATIONS & ELIGIBILITY CRITERIA FOR APPEARING BoE EXAMINATION**

A candidate for a certificate of proficiency as Boiler Operation Engineer (BOE) shall not be admitted to the examination unless he/she –

- a) Has completed the age of 23 (Twenty Three) Years as on 1.1.2023.
- b) Possesses a degree or diploma in Mechanical or Electrical or Chemical or Power Plant or Production or instrumentation Engineering from a recognized university or Institution.
- c) Has served not less than 2 (Two) years in case of degree holders and for 5 (five) years in case of diploma holders in the operation or maintenance of a Boiler of not less than 1000 m<sup>2</sup> (one thousand square meters) heating surface or a Battery of Boilers of not less than 1000 m<sup>2</sup> (one thousand square meters) heating surface in aggregate out of which at least one boiler of not less than 500 m<sup>2</sup> (five hundred square meters) heating surface.  
Provided that in case of a degree holder or post graduate diploma holder from National Power Training Institute, the requirement of minimum working experience shall be 1(one) year.

**Note: 1)** Applicants employed in Central Govt/State Govt./PSU s must inform their employer in writing before applying.

**2)** All experiences must be exclusively of Boilers only, which are to be furnished in original on the letter Head of the Concerned Organisation.

**3)** Any eligible candidates, working outside Assam State, his application must be associated with the N.O.C of the Chief Inspector or Director of Boilers of the Respective State. However in the event of inability to produce the same due to paucity of time & other genuine reasons ,the chairman the Assam BOE Examination Board may take any justful decision on the matter.

**EXAMINATION FEE:** Rs 2000/- (Two Thousand) is to be paid online through eGras portal [www.assamegras.gov.in](http://www.assamegras.gov.in)

**Written & Viva - Voce Examination Dates:** To be notified later on.

**Examination Place:** Guwahati only.

**Written Examination shall contain the Following papers:**

Paper-1, Paper-2, Paper-3 (Drawing)

### **Documents required at the time of submission of Application:**

- a) Self attested copy of all relevant documents regarding educational Qualification.
- b) 2 copies of recent passport size photograph.
- c) Application form of the applicant & Experience certificate in Original on the Letter Head of the Concerned Organization in Annexure -I.
- d) **N.O.C** from the applicants working outside Assam in Annexure-II or as decided by the Chairman of the Assam B.O.E Examination Board.
- e) One self addressed envelope with postage stamp of Rs 5/- duly fixed.
- f) Online copy of Challan regarding payment of fees.

Necessary application form and instruction to candidates etc., may be collected from the office as mentioned below during office hours or may be downloaded from website: [www.cib.assam.gov.in](http://www.cib.assam.gov.in). Applications duly filled in should reach the Chairman, Board of Examiners for Boiler Operation Engineers Examination, Office of the Chief Inspector of Boilers, Assam, Lalmati, Guwahati-29, Assam on or before **07/08/2023**.

**CHAIRMAN**  
**BOARD OF EXAMINERS FOR BOILER OPERATION ENGINEERS EXAMINATION**  
**OFFICE OF THE CHIEF INSPECTOR OF BOILERS, ASSAM**  
**NEAR BRAMHAPUTRA BOARD, NH-37, GUWAHATI**

No.

**FORM "A"**

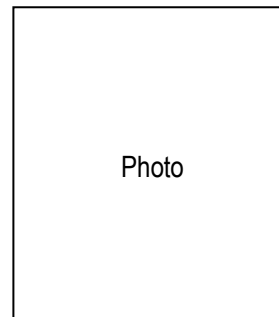
[ See rules 26 and 41 of the Boiler Operation Engineers Rules, 2011]

**APPLICATION FOR CERTIFICATE OF PROFICIENCY AS BOILER OPERATION ENGINEER**

**PART-I**

**Name etc of the applicant**

|    |  |               |               |
|----|--|---------------|---------------|
| 1. | Name in Full                                 |               |               |
| 2  | Father's Name                                |               |               |
| 3  | Nationality                                  |               |               |
| 4  | Date & Place of Birth                        |               |               |
| 5  | Permanent Address                            |               |               |
| 6  | Identification Marks                         |               |               |
| 7  | Height & Weight                              | Height.....cm | Weight.....Kg |
| 8  | Contact No.                                  |               |               |
| 9  | E-mail Address                               |               |               |
| 10 | Whether appeared in any previous examination |               |               |
| 11 | If so, details of place and date             |               |               |
| 12 | GRN No.....<br>Date.....<br>Amount Rs.....   |               |               |



**PART-II**

**PARTICULARS OF ALL CERTIFICATES SUBMITTED**

| Number of the Certificate | Class of certificate | Place of Issue | Date of Issue | If at any time Suspended or cancelled, and if so state by whom | Date of suspension or cancellation | Reasons of suspension or cancellation |
|---------------------------|----------------------|----------------|---------------|--|------------------------------------|---------------------------------------|
| 1                         | 2                    | 3              | 4             | 5  | 6                                  | 7                                     |
|                           |                      |                |               |  |                                    |                                       |

**Signature of the Applicant**

**PART-III**

**LIST OF TESTIMONIALS AND STATEMENTS OF SERVICE**

*(The testimonials to be numbered serially corresponding to the numbers given in column 1 below)*

| Serial number of testimonials                      | Date of testimonials | Name of person signing the testimonials | Address and designation of factory or workshop where employed | Number, Type and heating surface of boilers worked on | Capacity in which employed | Service of Applicant |                     | Period for which employed |        |      | Not to be filled in by the applicant |         |
|--|----------------------|---|---|---|----------------------------|----------------------|---------------------|---------------------------|--------|------|--------------------------------------|---------|
|  |                      |   |   |   |                            | Date of commencement | Date of termination | Years                     | Months | Days | Initial of verifier                  | Remarks |
| 1  | 2                    | 3                                       | 4   | 5   | 6                          | 7                    | 8                   | 9                         | 10     | 11   | 12                                   | 13      |
|  |                      |   |   |   |                            |                      |                     |                           |        |      |                                      |         |
| Total Service                                      |                      |   |   |   |                            |                      |                     |                           |        |      |                                      |         |
| Time served for which certificates are produced    |                      |   |   |   |                            |                      |                     |                           |        |      |                                      |         |
| Time Served for which no certificates are produced |                      |   |   |   |                            |                      |                     |                           |        |      |                                      |         |

**Signature of the Applicant**



(Annexure-I)

(For candidate working within Assam)

**Draft Format of practical experience certificate/service certificate and Testimonials of good character with age from the employer**

(To be issued on the letter head of the concerned mill / factory /workshop)

**SERVICE / EXPERIENCE CERTIFICATE**

This is to certify that Sri  
.....aged.....S/o.....was/is  
working in our organization as .....(designation)  
from.....to..... The specification of the boiler/boilers on which the candidate  
is working/ worked are as follows :

| SI No. | Specification  | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 |
|--------|--|----------|----------|----------|----------|
| 1      | Registration No. of Boiler                             |          |          |          |          |
| 2      | Date of Boiler Registration/ date of first P.O. issued |          |          |          |          |
| 3      | Working Pressure (Kg/cm <sup>2</sup> )                 |          |          |          |          |
| 4      | Heating Surface (m <sup>2</sup> )                      |          |          |          |          |
| 5      | Type of Boiler   |          |          |          |          |

He bears good conduct and character.

This certificate is issued to Sri.....appears for Boiler Operation Engineers examination.

Signature:

Name & Seal:  
(Under whom candidate is employed)

Contact No:

E-mail address:

Place :

Date :

**ABILITY, CONDUCT AND EXPERIENCE CERTIFICATE & N.O.C**

*(For candidate working outside Assam)*

Name of the Employee :

Designation :

Date of Birth :

Educational Qualification :

Date of Joining :

**Details of Experience in Boiler**

Mr/Mrs.....having basic qualification (specify degree/Diploma/ or Degree/Diploma from National Power Training Institute) is/was working in the ..... Department from.....to.....in operation and maintenance of Boiler/Boilers having the following particulars as listed below

**Details of Boilers**

| Boiler Registration. No | Make | Type | Capacity (TPH) | Working Pressure (Kg/cm <sup>2</sup> ) | Heating Surface (m <sup>2</sup> ) | Fuel Used |
|-------------------------|------|------|----------------|--|-----------------------------------|-----------|
|                         |      |      |                |  |                                   |           |
|                         |      |      |                |  |                                   |           |
|                         |      |      |                |  |                                   |           |

M/s .....(occupier's Name) has no objection to the above employee appearing for the Boiler Operation Engineers (BoE) Examination, 2023 conducted by Inspectorate of Boilers, Government of Assam.

Certified that the best of our knowledge and belief , Mr.....bears good character and conduct.

Signature & Seal of the Head of Department  
to which boilers are attached

Countersigned by Chief Inspector of Boilers/Director of Boilers

(.....State)

## **SYLLABUS/CURRICULAM FOR THE EXAMINATION**

Syllabus for the three written examination papers on which the candidates shall be assessed are as given below:

### **PAPER-1:**

- a) Can calculate loads, areas, volumes, quantities and weights;
- b) Can give description of the principal types of steam boilers used on land and to state the purposes and reasons for which different types of boilers are employed; and from the data and formulae supplied, calculate the safe working pressure for any part of a boiler in accordance with the Indian Boiler Regulations;
- c) Can calculate the direct stress, the torsional stress and the bending stress in round bars and shafts and the bending stress in rectangular bars and levers with given load;
- d) Understands the working and management of steam boilers, super heaters and economizers;
- e) Understands the use and purpose of various valves,cocks,mountings, fitting and other safety devices;
- f) Can give a description of and explain the functions of feed pumps, feed injectors, feed regulators,feed water filters and softeners , feed heaters, air heaters, calorifiers, steam accumulators, forced draught , induced draught and automatic draught control devices;
- g) Can answer questions on fact relating to combustions, heat and steam and calculate consumption of coal and water and quantity of steam that may be generated from a given heating surface under the various systems of draught, in any land boiler and also calculate the overall efficiency of boiler plant;
- h) Can explain jet and surface condensation, reheating and the working of steam expansion;

### **PAPER-2:**

- a) Can explain the general methods employed in laying foundation for boilers and chimneys and the suitable area and height of chimneys to promote efficient combustion.
- b) Can explain the significance of principal appliances in use for the prevention of smoke and the principal on which they work and give description of the principal mechanical stokers, pulverisers, gas,oil and pulverized fuel systems in use;
- c) Understands the need for periodical cleaning, the methods used for prevention of scale or other deposits on heating surfaces and the necessity for maintaining a certain PH value in feed water;
- d) Can detect defects in boilers and state the means and methods of rectifying them.
- e) Understands the precautions to be taken for starting a boiler and economizers from cold or from banked fire condition.
- f) Understands the procedure to be adopted in putting economizers out of commission while the boiler is on steam.
- g) Can explain the methods adopted for the achievement of fuel economy and the use of various instruments used in a Boiler House;
- h) Materials used in Boiler components and piping; and

### **PAPER-3:**

Can read and prepare a working sketch and drawing of Boilers and boiler mounting or parts thereof.