

LABOUR DEPARTMENT

NOTIFICATION

No. 1583-L.W.[LW]1R-25/63.—22nd July 1963.—In exercise of the power conferred by section 29 of the Indian Boilers Act, 1923 (V of 1923), and in supersession of the West Bengal Boilers Rules, 1950, the Governor is pleased hereby to make the following rules, after previous publication, as required under sub-section (1) of section 31 of the said Act, namely:

THE WEST BENGAL BOILERS RULES, 1963.

I. PRELIMINARY

1. **Short Title:** These rules may be called the West Bengal Boilers Rules, 1963.
2. **Definitions:** In these rules, unless there is anything repugnant in the subject or context,—
 - (a) “the Act” means the Indian Boilers Act, 1923 (Act V of 1923);
 - (b) “Competent Authority” means an authority competent to issue certificates to welders for the purposes of Chapter XIII of the Indian Boiler Regulations, 1950;
 - (c) “form” means a form appended to these rules;
 - (d) “Inspecting Authority” means an authority competent to grant a certificate in Form II and to countersign certificates in Forms III, IIIA and IIIB appended to the Indian Boiler Regulations, 1950;
 - (e) “Inspecting Officer” means an officer competent to examine materials manufactured or boilers constructed in West Bengal;
 - (f) “regulation” means a regulation of the Indian Boiler Regulations, 1950, framed by the Government of India under section 28;
 - (g) “section” means a section of the Act.

II. GENERAL

3. **Payment of fees, etc.:** (a) All fees, costs and penalties payable under the Act or any regulation or rule framed thereunder, shall be deposited in a Government Treasury under the head “XXXII—Miscellaneous, Social and Developmental organisations—Labour and Employment—Fees for the Inspection of Steam Boilers”, by chalan in duplicate, the original copy being forwarded to the Chief Inspector of Boilers, West Bengal, Calcutta, together with the application for inspection. An application under section 7 or section 8, to which the treasury receipt obtained on payment of the prescribed fee is attached, shall be deemed to be accompanied by the prescribed fee.

In the case of fees payable by Government Departments the payment shall be made by book transfer.

(b) For examination of boilers or parts thereof or drawings for steam pipes, for the testing of welders or for any other matter as provided for under clause (f) of section 29, an application in the prescribed form shall be accompanied by a treasury chalan showing payment of the prescribed fee under the head specified in clause (a).

4. **Appointment of the Chief Inspector, Deputy Chief Inspectors, Inspectors, Inspecting Authority and Inspecting Officers:** (a) The appointment of the Chief Inspector, Deputy Chief Inspectors and Inspectors of Boilers shall be regulated by the rule framed by the State Government for the recruitment of officers in the West Bengal Boilers Service.

(b) The Chief Inspector shall be appointed by the State Government as Inspecting Authority and Competent Authority.

(c) Inspecting Officers shall be appointed by the State Government from amongst the Inspectors of Boilers.

III. FEES

5. **Calculation of fees for registration of boilers:** (1) Fees required to accompany applications under sub-section (1) of section 7 and sub-section (4) of section 8 shall be calculated on the basis of boiler rating as laid down in regulation 384.

(2) The procedure for calculating boiler rating shall be as detailed in regulation 383.

6. **Fees:** The following fees are prescribed, namely:—

(1) *Registration fees:* Fees for registration and first inspection of boilers shall be as provided in regulation 385.

(2) *Fees for renewal of certificates:* Fees required to accompany applications for the issue of renewed certificates under sub-section (4) of section 8 shall be on the following scale:—

For boiler rating not exceeding 100—Rs. 60.

For boiler rating exceeding 100 but not exceeding 300—Rs. 70.

For boiler rating exceeding 300 but not exceeding 500—Rs. 80.

For boiler rating exceeding 500 but not exceeding 700—Rs. 90.

For boiler rating exceeding 700 but not exceeding 900—Rs. 105.

For boiler rating exceeding 900 but not exceeding 1,100—Rs. 120.

For boiler rating exceeding 1,100 but not exceeding 2,000—Rs. 150.

For boiler rating exceeding 2,000 but not exceeding 4,000—Rs. 170.

For boiler rating exceeding 4,000 but not exceeding 6,000—Rs. 195.

For boiler rating exceeding 6,000 but not exceeding 8,000—Rs. 210.

For boiler rating exceeding 8,000 but not exceeding 10,000—Rs. 240.

For boiler rating exceeding 10,000 but not exceeding 12,000—Rs. 280.

For boiler rating exceeding 12,000 but not exceeding 14,000—Rs. 320.

For boiler rating exceeding 14,000 but not exceeding 16,000—Rs. 360.

For boiler rating exceeding 16,000 but not exceeding 18,000—Rs. 400.

For boiler rating exceeding 18,000 but not exceeding 20,000—Rs. 440.

For boiler rating exceeding 20,000 but not exceeding 22,000—Rs. 480.

For boiler rating exceeding 22,000 but not exceeding 24,000—Rs. 520.

For boiler rating exceeding 24,000 but not exceeding 26,000—Rs. 560.

For boiler rating exceeding 26,000 but not exceeding 28,000—Rs. 600.

For boiler rating exceeding 28,000 but not exceeding 30,000—Rs. 640.

For boiler rating exceeding 30,000 for every 2,000 or part thereof an additional fee of Rs. 15 shall be charged:

Provided that when any owner of a boiler is willing to accept a renewed certificate for less than twelve months in order to approximate the date of annual inspection to the date on which other boilers in the locality are inspected, a certificate for such period, less than twelve months as may be necessary for such approximation of dates, may be granted at a reduced fee to be calculated at one-twelfth of the ordinary fee for each full month, a portion of a month not being reckoned.

(3) *Application of the above fees:* The fees mentioned in clauses (1) and (2) shall cover thorough inspection, hydraulic test and steam test where such are necessary, subject to the provisions of sub-section (2) of section 14.

(4) *Second fees for re-inspection of defective boilers and inspection in default:* A second fee shall be leviable for the re-inspection of a defective boiler and also in any case where the inspection of a boiler is begun, but owing to the fault or neglect of the owner or person in charge, is not completed within a period of six months from the date of commencement of inspection.

(5) *Fees for duplicate certificates:* Duplicate certificates for bona fide purposes may be issued to boiler owners under the orders of the Chief Inspector on receipt of a fee of Rs. 5.

(6) *Fees for copy of registration book:* For each copy of the registration book the fee shall be Rs. 10.

(7) *Additional fee for inspection or examination on Sundays and certain holidays:* (a) Notwithstanding the provisions of clause (3), an additional fee of Rs. 50 shall be charged for—

(i) inspection of a boiler,

(ii) examination of boilers or parts thereof at an aggregate of three of the stages of construction or less as detailed in Appendix 'J' of the Indian Boiler Regulations, 1950,

(iii) inspection of steam pipes;

on a Sunday or on other public holidays under the Negotiable Instruments Act, 1881, provided that such inspection is made at the request of the owner or maker of the boiler or steam pipes and with the approval of the Chief Inspector.

(b) The additional fee charged under sub-clause (a) shall be paid in the manner prescribed in rule 3.

[*Note.*—The Inspector who makes the inspection shall be entitled to an allowance equal to half the additional fee so charged.]

(8) *Payment of Inspector's travelling expenses in certain cases:*

(a) In addition to the above fees, an Inspector's travelling expenses shall be realised from owners, whose boilers are not ready for inspection on the first visit made on their application, for every additional visit made by the Inspector for the completion of the inspection.

(b) If the owner of a boiler requires an inspection at a time which would necessitate a special journey by an Inspector, an additional fee equal to the travelling allowance of the Inspector and his attendant staff, if any, as determined by the West Bengal Service Rules, shall be paid by the owner of the boiler in addition to the fees prescribed in this rule:

Provided that if two or more owners apply for inspections which are made in the course of a single such journey, the additional fee prescribed in this clause shall be recovered from such owners in such proportion as the Chief Inspector may determine.

- (9) Fees for inspection, examination, testing and certification of boilers and scantlings under construction (as provided for in regulation 395A of the Indian Boiler Regulations, 1950)—
- (a) *The inspection fee for boilers constructed in India shall be calculated on the following basis:*
- (i) at three times the registration fee for a boiler of riveted construction.
 - (ii) at four times the registration fee for a boiler of welded construction.

Fees for inspections of boiler scantlings and tubes during construction shall be charged as under:

- (i) up to 10 square feet (0.929 sq. metre) of outside surface—Nil.
- (ii) above 10 square feet (0.929 sq. metre) of outside surface—one-half of the registration fee of the boiler for which the part is intended.

Fees for inspection of tubes shall be charged at rupees twenty only per metric ton or a fraction thereof.

The manufacturer in addition shall supply free of charge the labour and appliances which may be necessary for such mechanical tests as may be carried out in his premises or those of the steel makers and tube makers in accordance with the standards laid down in the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

- (b) *Fees for examination and certification of scantlings of boilers, steam pipes, economisers and superheaters during fabrication at site:* The fees for such examination and certification for supervision required under clause (b) of regulation 4 shall be equivalent to the fees required for the registration of the boiler.

The owners or erectors shall supply free of charge the labour and appliances which may be necessary for such tests as may be carried out in their premises in accordance with the standards laid down in the regulations. Failing to find facilities themselves for the prescribed tests, they shall bear the cost of carrying out these tests elsewhere.

- (10) (a) *Fees for examination of plans of boilers:* The fee for the scrutiny of plans under sub-regulation (a) of regulation 393 shall be on the scale prescribed in regulation 385, subject to a maximum of Rs. 700 but when a plan which has been scrutinised and in respect of which alterations have been suggested is re-submitted for scrutiny, a separate fee on the same scale shall be payable if the plan contains alterations other than those previously suggested.
- (b) *Fees for examination of plans of steam pipes:* The fee required under sub-regulation (a) of regulation 395 shall be at the rate of Rs. 5.00 per 30 meters (100 ft.) of piping or part thereof inclusive of all fittings, excepting fittings like de-superheaters, steam receivers, feed heaters and separately fired superheaters. For any fittings like de-superheaters, steam receivers and separators, the fee shall be Rs. 50.00 for each such fittings.
- (c) *Fees for examination of steam pipes for grant of certificates in Form IIIA of the regulations:* A fee equivalent to the registration fee of the boiler or boilers to which the steam pipes are to be fitted shall be charged for the examination of drawings and plans for this purpose. (See regulation 394.)
- (11) *Fees for examination and inspection of indents of stores relating to boilers on behalf of Central or State Government Departments:* A fee equivalent to one per cent. of the value of the stores inspected shall be charged for examination and inspection of the stores.
- (12) *Fees for testing of welders in accordance with State rules or regulations:* For the testing of welders in accordance with West Bengal Boilers (Testing of Welding Operators) Rules, 1954, a fee of Rs. 125 shall be charged as prescribed thereunder.

(13) For the qualification or requalification tests of welders engaged in welding of boilers and steam pipes under construction, erection and fabrication at site in accordance with the requirements of Chapter XIII of the regulations, a fee of Rs. 150 shall be charged.

(14) *Fees for examination and certification of boiler mountings and fittings under manufacture:* A fee of Rs. 150 shall be charged for examination and certification of a single lot of boiler mountings of identical size and specifications made from the same cast.

The manufacturer in addition shall supply **free of charge the labour and appliances** which may be necessary for such mechanical tests as are required under the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

The charges for the examination of drawings only for mountings and fittings under manufacture shall be one-third of the above charges.

(15) *Fees for the examination of steam receivers, separators, etc., under construction for the grant of certificate in Form IIIA of the regulations:* The examination fees to be charged in this case shall be as follows:

(i) For a vessel up to 600 mm (24") diameter—Rs. 150.

(ii) For a vessel over 600 mm (24") diameter—Rs. 240.

The manufacturer in addition shall supply free of charge the labour and appliances which may be necessary for such mechanical tests as are required under the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

7. **Other fees:** Other fees required to accompany applications under subsection (f) of section 29 shall be of the following classes:

(a) *For the examination of boilers or parts thereof, steam receivers, separators, etc.:* This shall be calculated on the basis of provisions made under rules 6(9), 6(14) and 6(15).

(b) *For the examination of plans and particulars of materials, design and construction of boilers:* This shall be calculated on the basis of provisions made under regulation 393(b) and as laid down under rule 6(10).

(c) *For the examination of drawings for steam pipes and inspection of steam pipes under construction:* These shall be calculated on the basis of provisions made under rule 6(10).

(d) *The inspection of indents relating to boilers on behalf of Central or State Government Departments:* This shall be calculated on the basis of provisions made under rule 6(11).

(e) *For the testing of welders:* This shall be in accordance with the provisions made under rules 6(12) and 6(13).

(f) *For any other matter which in the opinion of the State Government would involve time and labour as provided for in section 29(f) but not prescribed in these rules:* The fees to be charged shall be at the discretion of the State Government in such cases.

8. **Refund of fees:** Fees paid in excess and fees paid for inspections which, for any reasons not due to any fault or omission of the owners or persons in charge of boilers, have not been made, shall be refunded by the Chief Inspector if the refunds are applied for within one year from the date of payment or may be set off by the Chief Inspector against the fees for the inspections of any other boiler of the same owners.

IV. DUTIES OF THE CHIEF INSPECTOR

9. **General control:** The Chief Inspector shall be vested with all the powers of a Deputy Chief Inspector and an Inspector under the Act, but his main duty shall be the supervision and control of the work of the Deputy Chief Inspectors and Inspectors. He shall normally inspect or examine boilers, scantlings or steam pipes only in exceptional cases, or in such cases in which he considers that the work of a Deputy Chief Inspector, Inspector or an Inspecting Officer requires a personal check.

10. **Specific duties:** (1) The Chief Inspector shall—

- (a) personally check the registration and measurements of all newly registered boilers, for the initial working pressure and enter under his own signature all orders required by section 7;

[Note.—He may, however, authorise a Deputy Chief Inspector to undertake the above work and to make his recommendations in this behalf, to the Chief Inspector.]

- (b) enter under his own signature all subsequent entries required in the registration book;
- (c) approve the programme of inspections of Deputy Chief Inspectors and all Inspectors subordinate to him with due regard to the convenience of owners generally;
- (d) examine and pass orders on the diaries and returns of Deputy Chief Inspectors and Inspectors;
- (e) examine and approve all reports of Deputy Chief Inspectors and Inspectors regarding structural alteration, addition or renewal to boilers;
- (f) pass orders in all cases in which an Inspector or a Deputy Chief Inspector proposes to increase or reduce the pressure allowed for any boiler under clause (a) of the second proviso to sub-section (5) of section 8 or to revoke, cancel or refuse to renew the certificate of a boiler under section 11 or to order important repairs, structural alterations, or renewals in a boiler under section 8;
- (g) decide all appeals against the orders of Deputy Chief Inspector and Inspector under section 19;
- (h) sanction prosecutions under the Act;
- (i) enquire into serious accidents to boilers;

[Note.—He may, however, authorise a Deputy Chief Inspector to enquire into such accidents who shall report in writing to the Chief Inspector the results of the enquiry.]

- (j) record his observations in the annual report on the working of the Indian Boilers Act, 1923.
- (k) approve the budget estimates for carrying out the purposes of the Act as drawn up by a Deputy Chief Inspector of Boilers;
- (l) approve all plans and drawings for boilers and steam pipes and advise boiler owners or makers regarding the requirements of the Indian Boiler Regulations, 1950, on the design, material and construction for boilers to be installed or manufactured in the State.

[Note.—He may, however, authorise a Deputy Chief Inspector to undertake the above work and to make his recommendations in this behalf, to the Chief Inspector.]

(2) As an Inspecting Authority the Chief Inspector of Boilers shall—

- (a) approve all drawings and plans for construction of boilers, parts thereof, steam receivers, separators, etc.;
- (b) supervise and control the work of all Inspecting Officers in the construction of boilers, parts thereof, steam receivers, separators, etc.;
- (c) examine and approve all reports regarding examination of boilers, parts thereof under construction in stages as enumerated in Appendix 'J' of the regulations.
- (d) issue certificates in Forms II and IIIA and countersign certificates in Form III of the regulations for all boilers, parts thereof, steam pipes, steam receivers, separators, etc.;
- (e) advise the makers of boilers, parts thereof or of steam receivers, separators, etc., with regard to the provisions of the regulations in as much as they relate to their design and constructional features.
- (f) supervise and control the working of any testing laboratory set up for testing and examination of boilers or parts thereof under construction;

11. **Advice to owners:** The Chief Inspector may advise owners regarding the maintenance, working and cleaning of boilers. Such instructions as he may issue for this purpose shall be hung up in each boiler house.

12. (1) The Chief Inspector shall keep in his office—

- (a) a register in Form A No. 1 of all boilers registered in the State, or the registry of which has been transferred from another State;
- (b) the registration book and memorandum of inspection book of all boilers borne on his register;
- (c) a register of appeals;
- (d) a register of accidents; and
- (e) a register of registration and inspection fees received.

(2) As Inspecting Authority the Chief Inspector of Boilers shall keep in his office—

- (a) a register in Form A No. 2 of boilers and scantlings manufactured in the State;
- (b) a register of all tests carried out to test specimens against the boiler under manufacture;
- (c) a register of radiographic and non-destructive examination carried out with the results thereof against each boiler of welded construction under manufacture;
- (d) a register of drawings and plans of boilers approved;
- (e) a register of examination fees received in connection with construction of boilers, steam pipes or parts thereof;
- (f) a schedule of stage examination of boilers or parts thereof in accordance with the provisions under Appendix 'J' of the regulations.

13. **Control of bills:** The Chief Inspector shall be the controlling or countersigning authority in respect of all contingent bills and of travelling allowance bills of officers subordinate to him.

14. **Application for inspection and certificate:** (a) When a certificate in Form V or Form VI of the regulations is required, the application in Form B No. 1 stating the date on which the boiler will be ready for inspection shall be submitted to the Chief Inspector of Boilers. Such application shall be accompanied by the treasury receipt in original obtained on payment of the prescribed fee. In the case of boilers belonging to Government Departments the application shall be accompanied by the accepted Book Debit Voucher for payment of the prescribed fee. On receipt of the application, the Chief Inspector shall send it to the Inspector concerned after necessary endorsement thereon by the Cashier showing that the fee and the extra fee, if any, chargeable for inspection on a Sunday or other holiday as laid down in clause (7) of rule 6 together with the Inspector's travelling expenses, if any, chargeable under sub-clause (a) or sub-clause (b) of clause (8) of rule 6 have been paid. If the date on which the boiler will be ready for inspection as stated in the application by the owner is unsuitable for inspection of the boiler, the Inspector shall fix a date within thirty days from the date of the receipt of the application for such inspection and will give the owner not less than ten days' notice of the date so fixed.

(b) When a certificate in Form II, or endorsement on Forms III, IIIA or IIIB of the regulations is required for a boiler or scantlings under construction, an application in Form B No. 3 shall be submitted to the Inspecting Authority. Such application shall be accompanied by the treasury receipt in original obtained on payment of the prescribed fee. In cases where such fees are payable by Government Departments the application shall be accompanied by the accepted Book Debit Voucher for payment of the prescribed fee. On receipt of the application the Inspecting Authority shall send it to the Inspecting Officers concerned with the necessary endorsement by the Cashier showing that all fees including any extra fee chargeable for inspection on a Sunday or other holiday as laid down in clause (7) of rule 6 have been paid. The Inspecting Officer shall fix a date for the commencement of the examination according to the convenience of the makers as stated in their application.

15. **Establishment under the C.I.B.:** The Chief Inspector shall from time to time prepare and submit for the sanction of the State Government a Schedule of the establishment and salaries which he considers necessary for carrying out the purposes of the Act.

V. DUTIES OF DEPUTY CHIEF INSPECTORS

16. **Relationship with the Chief Inspector:** Deputy Chief Inspectors shall be directly subordinate to and under the control of the Chief Inspector. They shall be vested with all the powers of Inspectors under the Act or Inspecting Officers under the regulations. Their main duties shall be to scrutinise the work of Inspectors and other Inspecting Officers in the matter of inspection, examination and certification of boilers, steam pipes, scantlings and economisers and to make their observations available to the Chief Inspector, where necessary. They shall also carry out normal inspection work to such extent as may be considered necessary by the Chief Inspector of Boilers.

17. **General duties:** The Deputy Chief Inspector shall—

- (a) obtain the memorandum and registration book of a boiler which has been registered in another State and the subsequent transfer of which to this State is reported under section 6(c) when so directed by the Chief Inspector (see regulation 388);
- (b) pass orders in all cases for which it is reported that after due notice the boiler has not been properly prepared for inspection;
- (c) examine and countersign the Inspectors' memorandum of inspection book of each boiler after each inspection;
- (d) prepare the annual report on the working of the Indian Boilers Act, 1923;
- (e) prepare the budget estimates for carrying out the purposes of the Act;
- (f) dispose of all leave applications of the non-gazetted staff;
- (g) when authorised by the Chief Inspector, check the registration measurements and calculations of all newly registered boilers for the initial working pressure;
- (h) when authorised by the Chief Inspector, enquire into serious accidents to boilers and report in writing to the Chief Inspector the results of the enquiry;
- (i) when authorised by the Chief Inspector, check all plans and drawings for boilers, steam pipes and economisers;
- (j) check and examine certificates in Forms III, IIIA and IIIB and extracts of Form IV as required under the regulations and submit these documents to the Chief Inspector of Boilers within a fortnight of their receipt from makers;
- (k) generally assist the Chief Inspector in the administration of the Act.

VI. DUTIES OF INSPECTORS

18. **Relationship with the Chief Inspector:** The Inspectors shall be directly subordinate to and under the control of the Chief Inspector. They shall ordinarily be appointed to take charge of specified areas.

The main duties of the Inspectors shall be the inspection of boilers, steam pipes and economisers. Inspections shall be carried out strictly in accordance with the requirements of the Act, regulations and rules made thereunder and if appointed as Inspecting Officers they shall carry out examination of materials manufactured or boilers constructed in accordance with the regulations.

19. **Kinds of inspection:** There shall be two kinds of inspection of boilers, namely:

- (a) when the certificate granted under this Act is about to expire or when it has been revoked or suspended under section 11 and the owner desires that it shall be renewed, a thorough examination, inside and outside, shall be made by one of the Inspectors for which purpose the boiler must be prepared as required by regulation 390;
- (b) an ordinary inspection may be made by an Inspector at any time for the purpose of ascertaining whether a certificate should be revoked or suspended under section 11. The Inspector shall record his visit on the certificate granted to the boiler and submit a report on the inspection to the Chief Inspector.

20. **Search for unregistered boilers:** In addition to the inspection of boilers, it shall be the duty of the inspectors to search for unregistered or uncertified boilers within their areas, and to see that certified boilers are worked in accordance with the terms of the certificates, and the regulations or rules for safe working. The Inspector shall submit a report on such visits to the Chief Inspector.

21. **Inspectors to advise owners:** At the time of inspection, the Inspectors may advise the owner and the person in charge of the boiler on the management and upkeep of the boiler with special reference to the amount of cleaning required in view of the quality of water used.

22. **Specific duties:** (1) The Inspectors shall—

- (a) prepare a programme of inspection with regard to the convenience of owners generally and submit it to the Chief Inspector for approval at such periods as he may fix, at least fourteen days before the first date fixed in the programme;
- (b) maintain a memorandum of inspection for each boiler under their charge and submit it to the Deputy Chief Inspector for examination and countersignature after each inspection;
- (c) keep a diary for monthly submission to the Chief Inspector, showing places visited, boilers registered or inspected, variations from the programme and any other important particulars;
- (d) receive reports of accidents under section 18;
- (e) enquire into accidents to boilers or steam pipes and report to the Chief Inspector;
- (f) report to the Chief Inspector cases of unreported accidents discovered at the time of inspection; and
- (g) submit for the orders of the Chief Inspector—
 - (i) the memorandum of inspection books of all boilers proposed for registration under section 7;
 - (ii) proposals for increasing or decreasing the pressure of a boiler after inspection under sub-clause (ii) of clause (a) of the second proviso to sub-section (5) of section 8;
 - (iii) proposals for necessary repairs, structural alterations or renewals to a boiler after inspection under section 8 or section 12;
 - (iv) proposals for revoking, cancelling or refusing to renew certificates under section 8 or section 11;
 - (v) report when boilers have not been properly prepared for inspection under section 14;
 - (vi) proposals for prosecutions under the Act.

(2) An Inspecting Officer shall—

- (a) prepare a programme of stage examination with regard to the convenience of the makers generally and submit it to the Inspecting Authority for approval at such periods as he may fix;
- (b) maintain a schedule of such examination of boilers or parts thereof in Form D (see Appendix 'J' of the regulations);
- (c) maintain a diary of examinations carried out for monthly submission to the Inspecting Authority showing places visited, boilers or parts thereof examined and any other important matters;
- (d) submit to the Inspecting Authority reports in Form E on the results of the examinations carried out on boilers or parts thereof in accordance with the standards laid down in the regulation and with particular reference to variations therefrom;
- (e) report the results of tests carried out to materials or scantlings in their presence;
- (f) maintain records of all tests (both destructive or non-destructive) carried out by him or under his supervision;
- (g) when radiographic examinations are carried out to boilers or parts thereof, give his opinion in writing to the Inspecting Authority with regard to the acceptability or otherwise of the parts examined in Form E.

23. **Inspector's declaration:** When an inspection under the Act is completed, the Inspector making it shall prepare a declaration in Form B No. 2 in column 8 of which the limit of the working pressure (in kilograms per square centimeter/pounds per square inch) shall be clearly noted.

24. **Grant of certificate for the use of boiler:** Upon receipt of the declaration in the office, a certificate authorising the use of the boiler shall be prepared in Form VI prescribed by the regulations. Such certificate shall be signed by the Inspector and countersigned by the Chief Inspector and shall be delivered to the owner, manager or agent of the steam boiler inspected.

The time for the inspection of boiler shall be between sunrise and sunset.

VII. ACCIDENTS

25. **Investigation of accidents:** On receipt of a report of an accident to a boiler or steam pipe under section 18, the Inspector shall, with the least possible delay, proceed to the place to investigate the accident. If the report is received by the Chief Inspector, he shall forward it at once to the Inspector, within whose jurisdiction the accident has occurred for necessary action.

26. **Procedure during enquiry:** The Inspector at his enquiry shall make a careful examination of the damaged parts, and shall take such measurements and make such sketches for the purpose of his report, as he may deem necessary. He shall enquire into the circumstances, attending the accident and note the time of its occurrence, its nature and extent, the injury caused to persons and the damage done to property. The report should be drawn up in the proper manner giving full details of the observation and his opinion on the cause and prevention of the accident.

27. **Power to hold enquiry in writing:** The Inspectors shall take the written statements of witnesses and all persons immediately concerned with the accident. In order to comply with the provisions of section 18(2) the Inspector shall present to the owner or person in charge of the boiler a series of written questions on all points which are material to the enquiry.

28. **Use of boiler after accident:** The Inspector shall decide whether the use of the boiler can be permitted at the same or at a lower pressure without repair or pending the completion of any repairs or alterations that he may order. In no case shall he issue a provisional order or renewal certificate until his orders have been complied with.

29. **Procedure in case of serious accidents:** The report shall be sent without delay to the Chief Inspector who, if he considers that the investigation has been sufficient shall record the facts in his register of accidents and shall enter a brief account of the accident in the registration and memorandum of inspection books. If, however, the accident is of a serious nature and in all cases in which an explosion has occurred, the Chief Inspector, on receipt of the report of the Inspector, shall proceed to investigate the accident personally.

30. **Reference in annual report:** A brief account of all accidents, and their causes shall be included in the annual report on the working of the Act.

31. If, in the course of an inspection or at any other time, the Inspector discovers damage which comes within the definition of an accident, but which has not been reported, he shall report the facts at once to the Chief Inspector for action under section 24(d).

VIII. APPEALS

32. **Definition of appellate authority:** In this part "appellate authority" means the appellate authority as constituted under section 20.

33. **Appointment of appellate authority:** The State Government shall appoint the appellate authority for such period as it may deem fit. The appellate authority shall be an officer who has exercised or is exercising the powers of a District Judge or a District Magistrate.

34. **Panel of assessors:** The State Government shall constitute a panel of assessors for the purpose of assisting in the hearing of appeals. Assessors shall be competent persons with necessary practical knowledge and experience and must be fully qualified Mechanical Engineers.

35. **Attendance of assessors:** Whenever the date for the hearing of an appeal before the appellate authority has been fixed, the Chief Inspector shall under the orders of the appellate authority arrange for the attendance of, at least three members out of the panel of assessors constituted under rule 34 to act as assessors.

36. **Remuneration of assessors:** An assessor shall receive such remuneration and travelling expenses incurred for any day on which he attends the appellate authority as the State Government may by order direct.

37. **Filing of appeal:** Every petition of appeal shall be made in writing either in English or in Bengali.

38. **Presentation of appeal:** A petition of appeal may be presented either personally or by registered post to the Chief Inspector.

39. **Form of appeal:** The petition of appeal shall be accompanied by a certified copy of the order, notice or report appealed against, or where no such order, notice, or report has been made in writing, by a clear statement of the facts appealed against, the grounds of appeal, and the relevant section of the Act.

40. **Fixing of date for hearing:** On receipt of an appeal a date for hearing the appeal shall at once be fixed.

41. **Procedure before hearing:** When the date for hearing has been fixed, the appellate authority shall at once issue a notice to the appellant stating the date for hearing and informing him that if he wishes to be heard in support of the appeal or to produce evidence, he must be present either in person or by authorized agent with his evidence on the date fixed. The notice shall be sent by registered post to such address as shall be entered in the petition of appeal.

42. **Presence of Inspector:** In all appeals the appellate authority shall decide whether the presence of the Inspector is necessary, and shall issue orders accordingly.

43. **Attendance of witnesses:** The appellate authority shall have power to secure the attendance of witnesses and to make local enquiries and for this purpose shall exercise the powers of a Court under the provisions of the Code of Civil Procedure, 1908.

44. **Ex parte decisions:** If the appellant is not present on the date fixed, the appeal may be decided in his absence.

45. **Costs in appeals:** In appeals the appellate authority shall fix the costs and recover them from the appellant in cases in which the appeal is dismissed. In all cases of appeal in which a local inspection is required by the appellant he shall deposit in advance the full costs of such inspection.

46. **Fees required for certificates granted on appeal:** Any order on appeal authorizing the registering of a boiler or the grant or renewal of a certificate shall be deemed to be subject to the payment of such fees as are prescribed by rules or regulations framed under the Act.

IX. ADMINISTRATIVE INSTRUCTIONS FOR REGISTRATION

47. **Importance of registration:** The Inspectors shall carry out the technical instructions for the registration of boilers, as laid down in the regulations, with the greatest care and precision, as the details of measurement recorded at the time of registration constitute a permanent record for the boiler and determine the pressure at which the boiler is to be allowed to work.

48. **Receipt of applications:** Applications for registration under subsection (1) of section 7 shall be submitted to the Chief Inspector of Boilers in accordance with the provisions of rule 14. No boiler shall be registered if on measurement the fee is found to be deficient until the deficit has been paid. Any excess payment will be refunded according to rule 8.

49. **Register of registered boilers:** The Chief Inspector shall maintain a register of registered boilers in serial order in Form A No. 1 in two parts—in Part I (boilers originally registered in the State) the registered number of a boiler shall be the one immediately following the last serial number of the register. Gap numbers due to boilers being broken up or transferred to another State shall not be filled in, in Part II (boilers originally registered in other States) entries shall be made as prescribed in rule 51.

50. **Procedure of transfer of a boiler:** Whenever a boiler is transferred from one State to another the owner shall, under section 6(b) apply to the Chief Inspector of the State to which the boiler is transferred, for the registration of the transfer; the boiler cannot be used until registration has been effected. The Chief Inspector shall then obtain from the State the registration book and memorandum of inspection book of the boiler before the boiler is permitted to be used. No fee shall be charged for recording transfer.

51. **Entry of transferred boiler in register:** On receipt of the registration and memorandum of inspection books the Chief Inspector shall enter the boiler under its original number in Part II of his register. The registration book and the memorandum of inspection book shall be kept in the Chief Inspector's office.

52. **Note of transferred and dismantled boilers:** Whenever a boiler has been transferred to another State or broken up, the fact shall be noted in the register.

In the case of a boiler that has been permanently dismantled the registration book and the memorandum of inspection book shall be destroyed.

X. ADMINISTRATIVE INSTRUCTIONS FOR INSPECTION

53. **Reference to previous inspection:** The Inspectors shall carry out the inspection of boilers and steam pipes in accordance with the detailed instructions contained in the regulations. The Inspector previous to an inspection shall scrutinize the memorandum of inspection book and shall note any entries that may have been made at the last inspection.

54. **Procedure during inspection of boilers of a battery:** The Inspectors, when inspecting one boiler of a battery, shall also examine the other boilers under steam, with special reference to the water gauges, pressure gauges and safety valves, and steam piping.

55. **Issue of certificates and provisional orders:** (1) All certificates shall be issued from the head office after being countersigned by the Chief Inspector.

(2) A provisional order shall be issued in each case of registration after the hydraulic test of boiler and inspection of steam pipe and feed pipes connected to the boiler upon the certificate of the Inspector. The steam test may be taken at any convenient time within the period of the provisional order, after which, if the test is satisfactory, the certificate under section 7 shall be issued.

(3) A provisional order shall also be issued after each completed inspection for renewal of the certificates so as to give authority for the use of the boiler pending the issue of the certificate.

(4) The period specified in any certificate or provisional order shall begin on the day on which the completed hydraulic test and thorough inspection of boiler or inspection of steam and feed pipes is made.

56. **Form of provisional orders and certificates:** Provisional orders and certificates shall be issued in Forms V and VI respectively, prescribed under the regulations.

XI. ADMINISTRATIVE INSTRUCTIONS FOR EXAMINATION OF BOILERS, PARTS THEREOF, STEAM RECEIVERS, SEPARATORS, ETC., BY AN INSPECTING OFFICER

57. The Inspecting Officers shall carry out the examination of boilers, parts thereof, steam receivers, separators, etc., in accordance with the detailed instructions and specifications as laid down in the regulations. Previous to an examination he shall go through the remarks made in the Schedule to Form D.

58. While examining materials he shall verify the acceptability of the materials from original test reports from steel makers in accordance with the requirements of the regulations before stamping these materials.

59. (a) When steel makers certificates in Form IV of the regulations issued by well known steel makers or a recognised Inspecting Authority are available the materials may be stamped by him for use in the construction of boilers provided they are found to be in sound condition.

(b) When materials used in construction of boilers or parts thereof are offered for tests, he shall record the test results in Form G.

60. After each stage examination of a boiler or parts thereof, or of steam receivers, separators, etc., he shall advise the makers on the spot to proceed on to the next stage in their construction provided he is satisfied that the standard of construction does not fall short of the requirements of the regulations.

61. In cases where he finds the standard to fall short of requirements of the regulations his findings shall be reported to the Inspecting Authority immediately.

62. When radiographic examinations are carried out to parts which require such examination under the regulations the Inspecting Officer in charge of radiographic examination shall personally check up the identification of the film exposed, to the part under examination and record these in his diary and also in Form F.

63. He shall also maintain a record in Form F of all rectifications and repairs carried out by the manufacturer to welded seams after radiographic examinations (see regulation 266).

64. On completion of a construction of a boiler, parts thereof, steam receivers or separators he shall check up all details and enter particulars in Forms II, III, IIIA or IIIB of the regulations before the signature or counter-signature by the Inspecting Authority.

FORM A. No. 1

[See rule 12(1)(a) of the West Bengal Boilers Rules, 1963]

DIRECTORATE OF BOILERS, WEST BENGAL

Register of Boilers inspected

Registry number.	Type of Boiler.	Boiler rating.	Name of manufacturer.	Year and place of construction.	Date of registration.	Name of owner.	Place where in use.	Remarks. (transfers, etc.)
1	2	3	4	5	6	7	8	9

In Part II of the register, column 1 should contain the registry number and letters.

FORM A. No. 2

[See rule 12(2)(a) of the West Bengal Boilers Rules, 1963]

DIRECTORATE OF BOILERS, WEST BENGAL

1 Hastings Street (8th floor), Calcutta-1

Register of Boilers and Scantlings examined under construction

Makers number.	Type of Boiler or scantlings.	Boiler rating.	Name of makers.	Year of make.	Date of certification.	Remarks.
1	2	3	4	5	6	7

Inspector of Boilers,
West Bengal.

Registered No.....
Certified No.....

FORM B. No. 1

Application for the Registration, Inspection of Boilers and Steam Pipes under the
Indian Boilers Act, V of 1923 and for examination of Indents of Stores

[See rule 14(a) of the West Bengal Boilers Rules, 1963]

DIVISION I

Registered or makers number of boiler.	Name of owner or agent.	Where situated.	Date of inspection.	Description.
1	2	3	4	5

I hereby submit application to the Chief Inspector of Boilers for inspection of and the grant of a certificate for the boiler abovenamed, together with the Treasury receipt in original on accepted Book Debit Voucher in original for payment of the prescribed fee specified below:

Owner or Agent.

Dated at.....

This.....day of.....19 .

DIVISION II

To be sent to Owner with Application Form

I certify that the following fees and expenses are payable:—

Boiler number.	Boiler rating.	Fees.	Extra fee for Sunday and holiday inspection and other expenses.	Total.
1	2	3	4	5

N.B.—This form with Division I, duly filled in together with the Treasury receipt obtained on accepted Book Debit Voucher in original for payment of the prescribed fees and expenses specified above must be forwarded as soon as possible to the office of the Chief Inspector of Boilers, West Bengal, Calcutta, in order that the necessary inspection may be made.

Payment of fees by Book Transfer is applicable in the case of Government Departments only.

Chief Inspector of Boilers,
West Bengal.

Dated at Calcutta,

This.....day of.....19 .

DIVISION III

No.

I hereby certify that Rupees _____ naye paise have been deposited in Treasury/accepted for adjustment by Book Transfer as per receipt/Debit Voucher No. _____, dated _____ 19 _____, on account of the inspection of the boiler abovenamed.

Cashier.

(See regulations 384 and 385)

- For boiler rating not exceeding 100—Rs. 60.
 For boiler rating exceeding 100 but not exceeding 300—Rs. 70.
 For boiler rating exceeding 300 but not exceeding 500—Rs. 80.
 For boiler rating exceeding 500 but not exceeding 700—Rs. 90.
 For boiler rating exceeding 700 but not exceeding 900—Rs. 105.
 For boiler rating exceeding 900 but not exceeding 1,100—Rs. 120.
 For boiler rating exceeding 1,100 but not exceeding 2,000—Rs. 150.
 For boiler rating exceeding 2,000 but not exceeding 4,000—Rs. 170.
 For boiler rating exceeding 4,000 but not exceeding 6,000—Rs. 195.
 For boiler rating exceeding 6,000 but not exceeding 8,000—Rs. 210.
 For boiler rating exceeding 8,000 but not exceeding 10,000—Rs. 240.
 For boiler rating exceeding 10,000 but not exceeding 12,000—Rs. 280.
 For boiler rating exceeding 12,000 but not exceeding 14,000—Rs. 320.
 For boiler rating exceeding 14,000 but not exceeding 16,000—Rs. 360.
 For boiler rating exceeding 16,000 but not exceeding 18,000—Rs. 400.
 For boiler rating exceeding 18,000 but not exceeding 20,000—Rs. 440.
 For boiler rating exceeding 20,000 but not exceeding 22,000—Rs. 480.
 For boiler rating exceeding 22,000 but not exceeding 24,000—Rs. 520.
 For boiler rating exceeding 24,000 but not exceeding 26,000—Rs. 560.
 For boiler rating exceeding 26,000 but not exceeding 28,000—Rs. 600.
 For boiler rating exceeding 28,000 but not exceeding 30,000—Rs. 640.
 For boiler rating exceeding 30,000 for every 2,000 or part thereof an additional fee of Rs. 15 shall be charged:

FORM B. No. 2

[Vide rule 23 of the West Bengal Boilers Rules, 1963]

Declaration of Inspector

Register number of boiler.	Description and material. When and where made.	Repairs and alteration since last inspection.	Purpose for which used.	Boiler rating.
1	2	3	4	5

Date of last hydraulic test and pressure applied.	Date of inspection.	Limit of working pressure of boiler in pounds per square inch.	Date of last hydraulic test of steam pipes.	Remarks.
6	7	8	9	10

I hereby declare, viz.,—

- (1) That the abovenamed boiler was duly inspected by me on the 19 and found to be in accordance with the rules and requirements of the Indian Boilers Act, 1923 (V of 1923).
- (2) That the boiler with attached steam pipes is in charge of a and is not so exposed as to be dangerous.
- (3) That the said boiler will, in my judgement, be sufficient for a period of months, at a working pressure which is on no account to exceed the pressure "per square inch in pounds" stated in column 8 of this form.

Inspector.

Dated at

This.....day of.....19

Inspector of Boilers,
West Bengal.

Registered No.....

FORM B. No. 3

Application for the examination of Boilers or Scantlings under construction under the Indian Boilers Act

[See rule 14(b) of the West Bengal Boilers Rules, 1963]

DIVISION I

Maker's number.	Name of Maker or Agent.	Where constructed.	Date of commencement of examination.	Description of item under construction.
1	2	3	4	5

I hereby submit application to the Inspecting Authority for examination of and the grant of certificate for the item abovenamed, together with the Treasury receipt in original obtained on/accepted Book Debit Voucher in original for payment of the prescribed fee specified below:

Maker or Agent.

Dated at

This.....day of.....19

DIVISION II

(To be sent to makers with Application Form)

I certify that the following fees and expenses are payable:—

Maker's number.	Boiler rating or dimensions.	Fees.	Extra fee for Sunday and holiday inspection and other expenses	Total.
1	2	3	4	5

N.B.—This form with Division I, duly filled in together with the Treasury receipt in original obtained on accepted Book Debit Voucher in original for payment of the prescribed fees and expenses specified above must be forwarded as soon as possible to the office of the Chief Inspector of Boilers, West Bengal, Calcutta, in order that the necessary inspection may be made.

Payment of fees by Book Transfer is applicable in the case of Government Departments, only.

Inspecting Authority,
West Bengal.

Dated at Calcutta,

This.....day of.....19 .

DIVISION III

No.

I hereby certify that Rupees have been deposited in Treasury accepted for adjustment by Book Transfer Debit Voucher No. , dated 19 , on account of the examination of the boiler abovenamed.

Cashier,
Office of the Chief Inspector of Boilers,
West Bengal.

Dated at Calcutta,

This.....day of.....19 .

DIVISION IV

Fees

[See rules 6 and 14(b) of the West Bengal Boilers Rules, 1963]

6. (7) *Additional fee for inspection or examination on Sundays and certain holidays:* (a) Notwithstanding the provisions of clause (3), an additional fee of Rs. 50 shall be charged for:

- (i) inspection of a boiler,
- (ii) examination of boilers or parts thereof at an aggregate of three of the stages of construction or less as detailed in Appendix 'J' of the Indian Boiler Regulations,
- (iii) inspection of steam pipes;

on a Sunday or on other public holidays under the Negotiable Instruments Act, 1881, provided that such inspection is made at the request of the owner or maker of the boiler and with the approval of the Chief Inspector.

(b) The additional fee charged under sub-clause (a) shall be paid in the manner prescribed in rule 3.

[Note.—The Inspector who makes the inspection shall be entitled to an allowance equal to half the additional fee so charged.]

(9) Fees for inspection, examination, testing and certification of boilers and scantlings under construction (as provided for in regulation 395A of the Indian Boiler Regulations, 1950):—

(a) *The inspection fee for boilers constructed in India shall be calculated on the following basis:*

- (i) at three times the registration fee for a boiler of riveted construction.
- (ii) at four times the registration fee for a boiler of welded construction.

Fees for inspections of boiler scantlings and tubes during construction shall be charged as under:

- (i) up to 10 square feet (0.929 sq. metre) of outside surface—Nil.
- (ii) above 10 square feet (0.929 sq. metre) of outside surface—one half of the registration fee of the boiler for which the part is intended.

Fees for inspection of tubes shall be charged at rupees twenty only per metric ton or a fraction thereof.

The manufacturer in addition shall supply free of charge the labour and appliances which may be necessary for such mechanical tests as may be carried out in his premises or those of the steel makers and tube makers in accordance with the standards laid down in the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

(b) *Fees for examination and certification of scantlings of boilers, steam pipes, economisers and superheaters during fabrication at site:* The fees for such examination and certification for supervision required under clause (b) of regulation 4 shall be equivalent to the fees required for the registration of the boiler.

The owners or erectors shall supply free of charge the labour and appliances which may be necessary for such tests as may be carried out in their premises in accordance with the standards laid down in the regulations. Failing to find facilities themselves for the prescribed tests, they shall bear the cost of carrying out these tests elsewhere.

(10) (a) *Fees for examination of plans of boilers:* The fee for the scrutiny of plans under sub-regulation (a) of regulation 393 shall be the scale prescribed in regulation 385, subject to a maximum of Rs. 700 but when a plan which has been scrutinised and in respect of which alterations have been suggested, is re-submitted for scrutiny a separate fee on the same scale shall be payable if the plan contains alterations other than those previously suggested.

(b) *Fees for examination of plans of steam pipes:* The fee required under sub-regulation (a) of regulation 395 shall be at the rate of Rs. 5.00 per 30 meters (100 ft.) of piping or part thereof inclusive of all fittings, excepting fittings like de-superheaters, steam receivers, feed heaters and separately fired superheaters. For any fittings like de-superheaters, steam receivers and separators, the fee shall be Rs. 50.00 for each such fitting.

(c) *Fees for examination of steam pipes for grant of certificates in Form IIA of the regulations:* A fee equivalent to the registration fee of the boiler or boilers to which the steam pipes are to be fitted shall be charged for the examination of drawings and plans for this purpose (see regulation 394).

(14) *Fees for examination and certification of boiler mountings and fittings under manufacture:* A fee of Rs. 150 shall be charged for examination and certification of a single lot of boiler mountings of identical size and specifications made from the same cast.

The manufacturer in addition shall supply free of charge the labour and appliances which may be necessary for such mechanical tests as are required under the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

The charges for the examination of drawings only for mountings and fittings under manufacture shall be one-third of the above charges.

(15) *Fees for the examination of steam receivers, separators, etc., under construction for the grant of certificate in Form IIIA of the regulations:* The examination fees to be charged in this case shall be as follows:

(i) For a vessel up to 600 mm (24") diameter—Rs. 150.

(ii) For a vessel over 600 mm (24") diameter—Rs. 240.

The manufacturer shall in addition supply free of charge the labour and appliances which may be necessary for such mechanical tests as are required under the regulations. Failing to find facilities himself for the prescribed tests, the manufacturer shall bear the cost of carrying out these tests elsewhere.

The charges for the examination of drawings only shall be one-third of the above charges.

14. (b) When a certificate in Form II, Form IIIA or endorsement on Form III of the regulations is required for a boiler or scantlings under construction, an application in Form B No. 3 shall be submitted to the Inspecting Authority. Such application shall be accompanied by the Treasury receipt in original obtained on payment of the prescribed fee. In cases where such fees are payable by Government Departments the application shall be accompanied by the accepted Book Debit Voucher for payment of the prescribed fee. On receipt of the application the Inspecting Authority shall send it to the Inspecting Officers concerned with the necessary endorsement by the Cashier showing that all fees including any extra fee chargeable for inspection on a Sunday or other holiday as laid down in clause (7) of rule 6 have been paid. The Inspecting Officer shall fix a date for the commencement of the examination according to the convenience of the makers as stated in their application.

FORM C

INDIAN BOILERS ACT, 1923 (V OF 1923)

Notice of Examination of Boiler under sections 7 and 8

DIRECTORATE OF BOILERS, WEST BENGAL

New Secretariat Buildings (8th floor)

1 Hastings Street, Calcutta-1

No. of 19
To

Dated the.....19 ..

In reply to your application, dated _____, you are hereby informed that boiler registry No. _____ at the abovenamed premises will be thoroughly examined/hydraulically tested by the Government Inspector on the _____. To enable the examination to be made, you are directed—

- (a) to afford to the Inspector all reasonable facilities for the examination and all such information as may reasonably be required of you;
- (b) to have the boiler properly prepared and ready for examination in the prescribed manner; and
- (c) in the case of an application for the registration of a boiler, to provide such drawings, specifications, certificates and other particulars as may be prescribed.

Voucher No. _____ in acknowledgement of Bank|Treasury receipt No. _____ for Rs. _____ accompanies.

(Inspector of Boilers, West Bengal).

See reverse for preparation required.

(Reverse of Form C)

PREPARATION FOR EXAMINATION

(See Chapter IX of the Regulations)

Regulation 376

Preparation for Inspection: (a) At every examination of boiler for the grant of renewal of a certificate, the boiler shall be empty and thoroughly clean in all its parts. Except as provided for in sub-regulations (f) all doors of manholes, handholes and sight-holes and cleaning plugs and all caps in the headers and mud drums of water-tube boilers, all firebars, bearers, front plates, bridge plates, firebridges, brick arches, oil fuel burners and mechanical stoker fittings shall be removed. All valves and cocks comprising the boiler mounting shall be opened up and taken apart and the valves or cocks ground, when necessary, before the Inspector's visit.

(b) Provision shall, if required by the Inspector, be made for the removal of lagging or brick-work or other concealing part and for the drilling of plates, and for verifying the pressure gauge and safety valve dimensions and weights.

(c) All smoke tubes, exterior of water tubes, smoke boxes, and external flues shall be swept clean.

(d) Provision shall be made for the effective disconnection of all steam and hot water communication with any other boiler under steam as prescribed in Chapter IXA of these Regulations. This shall be effected either by the removal of a length of pipe from the steam and feed piping or by the insertion of substantial blank flanges. Where blank flanges are employed, they shall be inserted between the flanges of the chest and the pipe attached to it.

(e) No blank flange shall be inserted between a safety valve chest and the boiler.

(f) At alternative annual inspections and subject to a minimum of three bottom rows or all tubes subject to the first pass of heat being opened up for inspection, the Inspector may at his discretion relax the preparation for inspection called for under (a) above in favour of boilers having an evaporative capacity of 200,000 lbs. per hour and over, and fed with water treated to the satisfaction of the Inspector.

(g) In the case of forced flow and forced circulation types of boilers, provisions shall be made for checking that proper circulation is maintained through all the sections of the circuit by the flow of water.

378. Preparation for Hydraulic Test: (a) The chests of all mountings subject to the steam pressure shall be in place and shut tight or blank flanged.

(b) The safety valves should invariably be removed and the chest opening blank flanged.

(c) The attachment for the Inspector's pressure gauge shall be in order.

(d) All doors shall be properly jointed and tightened up. The boiler shall be completely filled with water, care being taken to allow all air to escape and, if possible, a preliminary test not exceeding the working pressure of the boiler shall be taken before the Inspector's visit, to test the tightness of the joints.

(e) When a boiler is hydraulically tested for the first time, it shall be entirely cleared of lagging or brickwork; at subsequent tests the lagging or brickwork, or portions thereof, shall be removed if required by the Inspector.

FORM D

DIRECTORATE OF BOILERS, WEST BENGAL

1 Hastings Street (8th Floor), Calcutta-1

Schedule of Stage Examination of Boilers or Scantlings under Construction

[See rule 22(2)(b) of the West Bengal Boilers Rules, 1963.]

Maker's Name.....Maker's No. of Boilers/Scantling.....Type of Boilers/Scantling.....
Description of Boiler/Scantling including Heating Surface or Dimensions....Drawing No.....

Dates of visit by Inspecting Officer.

Name of Inspecting Officer.

Stage of inspection (See Appendix J of the Regulations).

Remarks.

Boiler/Scantling finally stamped on..... Forms II and III signed on.....

FORM E

DIRECTORATE OF BOILERS, WEST BENGAL

1 Hastings Street (8th Floor), Calcutta-1

Examination Report on Materials or Boilers and Scantlings under Construction

[Rule 22(2)(d) of the West Bengal Boilers Rules, 1963.]

Description of Boilers, Scantlings or Materials:..... Report No.....

Maker's Name..... Maker's No.....

Drawing No.....

Date of Examination.....

Date of Examination.....

Description of Examination and/or Test.

Remarks.

Copy forwarded to

Inspecting Officer.

Inspecting Authority.

Date.....

FORM F

DIRECTORATE OF BOILERS, WEST BENGAL

1 Hastings Street (8th Floor), Calcutta-1

Report on Radiographic Examination of Welds

(See rule 63 of West Bengal Boilers Rules, 1963.)

Report No..... Date..... Maker's No.....Maker's Name.....

Details of part under examination

Type of Weld..... Weld preparation

Radiographic Equipment..... Film..... Duration of exposure.....

Setting..... Screens..... Identification.....

Examination Results:

Rectifications, if any :

Remarks :

Inspecting Officer (Radiology and Testing)

Approved by.....

Copy of forwarded to :

Inspecting Authority.....

Inspecting Authority.

FORM G

DIRECTORATE OF BOILERS, WEST BENGAL

1 Hastings Street (8th Floor), Calcutta-1

Report on Mechanical Tests

[See rule 59(b) of West Bengal Boilers Rules, 1963.]

Description of material tested at.....

Description of part to which the material relates.....

Date of test..... Identification of mark..... Test Report No.....

Dimensions of Test pieces.	Temp. of Test °C.	Tensile.			Bend.		Izod Section.
		Dia. or section.	Gauge length.	Area.	Section.	Diameter of former.	

Cast No.	Plate No.	Tensile Tests kgs/cm ²		Elong. percentage.	Reduction of area.	Hardness and type of test. kg/cm ² .	Remarks.
		Yield.	Ultimate.				

Specified Requirements

Cast No.	Plate No.	Test No.	Forward or Reverse bend.	Angle through which bent and if fractured.	Elongation percentage.	Remarks.

Condition of material :—

Harened °C

Normalised °C

Tempered °C

Micro and Macro results.

ANALYSIS	C	Si.	Mn.	S.	P.	Cr.	Mo.
Cast or brand.							

Remarks

Inspecting Officer.

Copy forwarded to

Inspecting Authority

Inspecting Authority.

FORM H

GOVERNMENT OF WEST BENGAL

See Chapter XIII of the Indian Boiler Regulations, 1950

[Rule 6(13) of the West Bengal Boilers Rules, 1963]

Indian Boilers Act, 1923 (V of 1923)

APPLICATION FOR WELDER'S QUALIFICATION TESTS

Dear Sir,

I beg to apply for test as a Qualified Welder and submit below details as required. Testimonials of my experience supported by my employers together with one copy of each are sent herewith.

Yours faithfully,
(Applicant)

- (1) Full name of applicant.....
- (2) Father's name.....
- (3) Date of birth.....
- (4) Nationality.....
- (5) Permanent address.....
- (6) Details of applicant's service as welder.....
- (7) Identification marks.....
- (8) Weight.....
(Full details together with exact period for which the candidate was employed and capacity in which employed must be given. Each such statement must be supported by applicant's employer or employers.)
- (9) The name of workshop where the candidate wishes to be examined.....
- (10) Details of previous tests at which candidate has appeared and failed.....

(Candidate must state name of Testing Authority before whom he appeared and on which count he was declared failed.)

I desire to be tested in the Electric Arc|Oxy-acetylene process of Welding on Plate|Pipe|Tube (mild steel|alloy steel).

Signature of applicant.

Date.....

Note.—(1) Every application must be accompanied by a Treasury Chalan showing that the fee for the examination (Rs. 150) has been paid under the "XXXII —Miscellaneous Social and Developmental Organisations—Labour and Employment—Fees for the Inspection of Steam Boilers".

- (2) Two copies of a recent bust photograph of the applicant (Passport size) must accompany the application with applicant's signature or thumb impression on the back thereof.
- (3) Incomplete applications are liable to be rejected.
- (4) The fee does not include any charges for the supply of materials for the test pieces.

Tested on.....Date.....

Place of test.....

Gas or electric A.C.|D.C.....

Kind of test.....
(Grove|Fillet|Branch)

Position.....

Thickness of material used.....Diameter and thickness of pipe, branch or tubes used.....

Quality of base material and electrode or filler rod.....

RESULTS OF OBSERVATIONS

	Marks Maximum awarded
A. Procedure	
1. Preparation of specimen	3
2. Size and grade of electrode or filler rod ..	2
3. Number of runs and manipulation of control	5
B. Visual Inspection	
4. Root penetration ..	10
5. Freedom from undercut	5
6. Disposition of runs ..	2
7. Uniformity of surface	1
8. Shape of profile ..	1
9. Smoothness of joints ..	2
10. Freedom from cavities and slags ..	5
11. Dimensions of weld deposit ..	1
12. Quality of weld metal (Overheating, surface cracks, spongy surface, etc.) ..	3
C. Physical Tests	
13. Face bend test ..	10
14. Root bend test ..	20
D. Etch Test	
15. Disposition of runs ..	2
16. Degree of fusion ..	5
17. Root penetration ..	11
18. Slags inclusions and porosity	5
E. Fractured Surface	
19. Quality of weld metal (Excessive oxidation, carburisation, overheating, roughness, porosity, appearance).	

Signature of Competent Authority.

Observation Radiographic Examination (if conducted).....

 Marks awarded.....per cent.....
 Results of Oral or Written Examination.....
 Marks awarded.....per cent.....
 General Remarks of Competent Authority.....

 Type and Class of welding qualified.....
 in Gas or Electric arc welding
 Period of validity of certificate

From.....To

Place.....
 Date.....

Competent Authority.

FORM No. XIII

QUALIFIED BOILER WELDER'S CERTIFICATE

Issued under the Indian Boiler Regulations, 1950

[Rule 6(13) of West Bengal Boiler Rules, 1963]

Photo (Passport size)
Seal and signature of Inspecting Authority

Name of welder.....

Father's name.....

Date of birth.....

Identification marks.....

Weight.....

Signature of welder.....

Address of welder.....

.....

Period of validity

From	To
.....
.....
.....

This is to certify that Shri....., son of Shri....., has been examined and tested in the prescribed manner in the presence of..... (Competent Authority) and is deemed to have satisfactorily proved his ability to make sound welds as per particulars given below and is hereby authorised to undertake such welds. He is authorised/not authorised to undertake welding where radiographic examination is necessary under the regulations.

Granted this.....day of19.. under the seal and authority of.....

Seal

Competent Authority.

Particulars—
 Tested on Plate|Pipe|Tube with position
 Date
 Material Mild steel or alloy steel
 Process
 Class of welding
 Backing strip
 Electrode Class (Carbon or alloy steel)
 Filter rod Type
 Test piece X-rayed or not.

Period of validity

From	To
.....
.....
.....

Employment particulars

From	To	Name of Employer.	Work on which engaged.	Signature of Employer.
.....
.....

By order of the Governor,
S. M. BHATTACHARYA,
 Jt. Secy. to the Govt. of West Bengal.

