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"FORM I

(See regulation 386)

MEMORANDUM OF INSPECTION BOOK OR REGISTRATION BOOK

BOILER INSPECTION DEPARTMENT BOILER REGISTRY NUMBER



GENERAL

District	
Owner	
Address of Factory	
Nearest Railway Station	
Factory is	KMs from station
Work or Factory	
Working Season	
Boiler registered at	on
Register Book No	Page
Registry Number	. verified on
Approved Working Pressure	
Boiler Rating	Inspection Fee
Registration Book Filed at	on

Remarks on transfers, etc.

PROVISIONAL ORDER AND CERTIFICATE RECORD

Fee Rs	Date of Payment	Date of Inspection	Certificate No. and Date	Period of certificate	Working Pressure Kg/cm2	Boiler Rating	Evaporation T/hr or Kg/hr	Initials of Inspector/ Competent Person

PARTICULARS AND DIMENSIONS

Type of Boiler:

Maker:

Place and Year of make :

Leading Dimensions:

Intended Working Pressure : Maker's Number :

Description of Boiler:

Details of Maker's stamp

Position of Stamp

MAKER'S CERTIFICATE

Inspecting Name...... Authority Tests of material, construction, supervision, hydraulic test..... received.....

DETAILS OF PRESSURE PARTS

S NO	NAME OF THE PRESSURE PART	SIZE	MATERIAL SPECIFICATION

CYLINDRICAL SHELL

	(a) Shell or Mud Drum	(b) Steam Drum
Name of parts		
Number		
Length between end plates		
Length between end plates seam		
Diameter inside largest belt		
Thickness of Plates		
Number of belts of plating		
Longitudinal seams		
Position (o'clock)		

SHELL END PLATES AND STAYS

	Flat, dished, hemispherical (in pieces,) not stayed, not flanged						
	Diameter (outside), front back,	crowr	l	Largest circle			
PLATES	Radius of curvature front	back,		crown			
	Radius of curvature, corner of flange,	shell,		furnace, uptake,			
	Plate, thickness, front back,	crowr	1	tubeplate F, B,			
	Attach. to shell, crown or front,						
	Attach. to shell, back end,						
	Attach. to uptake or furnace crown or front,						
	Attach. to furnace flue, back end						
	-						
	Gusset Stay, No. F.E., top,	Bottom,	. B.E., top,	bottom,			
AYS	Longtl. Stays No	dia.,		,			
ST/	Longtl. Stays pitch, Vertical	Horizontal	Circumferential	· · · · · · · · · · · · · · · · · · ·			
	Diagl. Do,						

MANHOLES, HAND AND SIGHT HOLES, DOORS AND STAND BLOCKS

Parts and materials

hereunder.....

MANHOLES	No. and position		
	Framed or plate flanged		
	Boiler opening, length \times width		
	Frame opening, length \times width		
	Frame inside, outside, raised, pressed		
	Frame solid, welded, cast		
	Frame section on longtl. axis		

	1	1
Door, type and thickness		
Door, if inside, spigot clearance		
Bolts, No. dia., threads Nut		
Bolts, pitch circle		
Compensation ring, width x thickness		
		1

	No	dimensions	positions
HT ES	Compensation rings fitted	section	
SIG	Doors, type	bolts dia., threads	spigot clearance
	Cleaning plugs, No	dia	position
BLOCK ETC.	Height	dia. (outside), top, bottom	thickness
	Standpipe below stop valve,	height, dia. (outside)	thickness
	Flanges		

FIREBOX DETAILS

		DETAIL	S OF FLUE TUBES
S	No. plain,	Stay overall	length specification
S TUBI	Plain, dia. (out)	thickness,	Front End., welded, expd., beaded, feruled. Smoke End., welded Expd., beaded, or
II PASS	Stay, dia. (out)	thickness,	F.E.,welded, expd., beaded, , S.E,welded, Expd.,
I &	Pitch of plain tubes, V	Н	D C.Z
_	Pitch of stay tubes, V	Н	D C, Z
S	No. plain,	Stay overall	length specification
TUBE	Plain, dia. (out)	thickness,	Front End., welded, expd., beaded, feruled. Smoke End., weld Expd., beaded, or
PASS	Stay, dia. (out)	thickness,	F.E.,welded, expd., beaded, , S.E,welded, Expd.,
I &III	Pitch of plain tubes, V	Н D	C.Z
-	Pitch of stay tubes, V	Н	D C, Z

FURNACE, CROWN AND UPTAKE

TICAL	No., No. of stiffener rin	gs in each Furnace	Type Longtl. seams position
ND VER CES	Length between Centre		
AL AJ URNA	Inside diameter		
IZONT	Plate thickness		
HOR	Positions of cross tubes or stiffener		

MOUNTINGS AND FITTINGS

		Number	Diameter	Туре	Material	Bolted OR welded
						to
Valves etc.	Safety					
	Safety					
	Main. Stop					
	Aux. Stop					
	Feed					
r	Blow Down					
	Injector					

	Water gauges, No	type	ə 1	Fest cocks No
LINGS	Water gauges, top of lower nut is	· · · · · · · · · · · · · · · · · · ·	mm above	
	Pressure gauge, Type	dia.in mm	range	Kg/cm ²
ŢŢ	Pressure gauge, Maker	No	red line at	Kg/ cm²
MISCELLANEOUS H	Fusible plug, type Blow down pipe connected to Feed apparatus		position .	

Additional fittings

SAFETY VALVES

	(A)	(B)	(C)
No. of valves each chest			
Туре			
Diameter of valve seat(mm)			
Diameter of Neck(mm)			
Diameter of outlet(mm)			

REQUISITE AREA OF SAFETY VALVES

For Saturated steam

For Superheated steam

$$A = \frac{E}{C.P.}$$

; P =

; A =

E = ; C = As = ; T =

;

 $As = \sqrt[A]{\left(1 + \frac{1.5T}{1000}\right)}$

HEATING SURFACE

Total Heating Surface	Sq. m.
Boiler Rating	

HYDRAULIC TEST (REGISTRATION)

Inspector	Date of test	Test pressure	Kgs/ cm ²					
Duration of test	mins. Boiler pressure, gauge No	o use at test						
oiler pressure gauge compared with on on found								
Position of Boiler at test								
Brick work	Brick work Lagging							
Condition of boiler under	Condition of boiler under test							
Condition of boiler moun	tings under test							
M I book prepared b	y on	submitted	on					
M I Book Checked by	on							
Least pressur	e, that for		Kg/ cm²					
Approved wo	rking pressure		Kg/ cm²					
Chief Inspector/Dire	ctor of Boiler's remarks and s	ignature						

STEAM TEST (REGISTRATION)

Inspector	Date of Test				
	Beginning	5 mins.	10 mins.	15 mins.	Difference
Timing of test					
Height of water in glass					
Pressure by Boiler gauge					
Accumulation of pressure, in (%) Do safety valves efficiently relieve boiler? Condition of boiler under steam Condition of mountings under steam Thickness of washers or ferrules					
Feed pump or injector worked					

NOTES ON WORKING OF BOILER

Boiler is used for
Constant, intermittent or seasonal work
Is boiler relieved by spare boiler ?
Nature of feed water
Fuel used Are printed instructions kept near boiler ?
Period between cleanings recommended by Inspector

STEAM-PIPES **PLAN OF MAIN STEAM-PIPES**

Registry Nos. of connected boilers

Provisions for disconnection from other boiler

RECORDS OF INSPECTIONS AND TESTS

First inspection by on First hydraulic test to

Kgs/ cm² ... by on

INSPECTION NOTES

PARTICULARS OF BOILER ATTENDANTS & BOILER OPERATION ENGINEER						
Date of visit	Name	Grade	Certificate No.	Date of Issue".		
??						

"FORM II (1)

[See regulation 4(c)(i)]

CERTIFICATE OF INSPECTION FOR SHOP ASSEMBLED BOILERS

INSPECTING AUTHORITY:_____ Certificate No._____

We	hereby	certify	that the	e Boiler	. built b	v	M/s
	nercoy	continy	that the		, ount c	<i>,</i>	111/0

under Maker's number _____ was constructed under our supervision and inspected at various stages of construction by the Competent Person and that the construction and workmanship were satisfactory and in accordance with the standard conditions for the design and construction of boilers as per regulations framed under the Boilers Act, 1923.

The boiler is stamped on the _____ Shell Plate with stamp as shown hereunder:-

:
: YEAR OF MAKE :
: Kg./cm ² (g) ON :
: Kg./cm ² (g)

COMPETENT PERSON'S OR INSPECTING AUTHORITY'S OFFICIAL STAMP

All welded seams were subjected to destructive and Non-Destructive examination wherever applicable and found satisfactory.

Signature of Competent Person

Signature of Inspecting Authority Date and Seal

FORM II (2)

[See regulation 4(c)(i)]

CERTIFICATE OF INSPECTION FOR SITE ASSEMBLED BOILERS INSPECTING AUTHORITY :_____ Certificate No. _____

We hereby certify that the_____ boiler; built by M/s_____

under Maker's Number ______ was constructed under our supervision and inspected at various stages of construction by the Competent Person and that the construction and workmanship were satisfactory and in accordance with the Standard Conditions for the design and construction of boilers as per regulations framed under the Boilers Act,1923.

The Boiler components are stamped as per details below, wherever applicable.

Component Name Drawing No.

Stamping Details

Maker's Name	:	
Maker's Numbe	r :	Year of make :
Tested to	:	Kg/cm ² (g) on
W.P.	:	Kg/ cm ² (g)

Competent Person's or Inspecting Authority's Official Stamp

Samples of materials used in the constructions of the boiler were tested in the presence of the Competent person and found to comply with the regulations.

All welded seams were subjected to destructive and Non-Destructive examination wherever applicable and found satisfactory.

We have satisfied ourselves that the construction and dimensions of the boiler are as shown in the Maker's Drawing Number_______ signed by us, and that the particulars entered in the Maker's certificate of manufacture in Form III countersigned by us are correct to the best of our knowledge and belief.

Signature of Competent Person

Signature of Inspecting Authority Date and Seal ".

FORM II-A

INSPECTING AUTHORITIES CERTIFICATE OF INSPECTION DURING CONSTRUCTION IN RESPECT OF A BOILER MADE TO FOREIGN CODE FOR EXPORT

[Regulation 3A]

Designation of Inspecting Authority

The boiler on completion was tested to in the presence of the Competent Person on and it satisfactorily withstood the test. Details of tests and inspections are furnished with this certificate.

We have satisfied ourselves that the design, construction and dimensions of the boiler are as shown in the Maker's Drawing No. approved and signed by us, and that the particulars entered in the Maker's Certificate of manufacture are correct to the best of our knowledge and belief.

Signature of Inspecting Authority

FORM II-B

INSPECTING AUTHORITY CERTIFICATE OF INSPECTION DURING CONSTRUCTION OF BOILERS FOR WHICH VARIATIONS FROM STANDARD CONDITIONS HAVE BEEN PERMITTED

[Regulation 4(c)(1) Note] **Designation of Inspecting Authority**

We hereby certify that the type boilers; length diameter working pressure built by Messrs at under Shop Number was constructed under our supervision and inspected at various stages of construction by the Competent Person, and that the design, construction and workmanship were satisfactory and in accordance with the variations from the standard conditions laid down in the Indian Boiler Regulations, 1950, for material design and construction features have been permitted by the Board of Inspecting Authority under the Indian Boilers Act, 1923.

The Boiler is stamped on the front end plate with our stamp as shown hereunder :----

The boiler on completion was subjected to a water pressure test of..... in the presence of The drum and header were

*Samples of materials used in the construction of the boiler were tested in the presence of the Competent Person and found to comply with the requirements. All welded seams were subjected to physical tests and radiographic examination wherever applicable and found satisfactory.

- Note: Strike off this paragraph where no such test have been carried out and the certificate in Form IV by a Well-Known Maker is intended to be furnished.
 - * Strike out which is not applicable.

We have satisfied ourselves that the constructions and dimensions of the boiler are as shown in the Maker's Drawing No. signed by us and that the particulars entered in the Maker's certificate of manufacture in Form III countersigned by us, are correct to the best of our knowledge and belief. Particulars of variations from the standard conditions laid down in the said regulations as permitted by the Board or Inspecting Authority are enclosed.

Signature of Inspecting Authority

Dated at this day of 20......

"FORM IIC INSPECTING AUTHORITIES CERTIFICATE OF INSPECTION DURING ERECTION

[Regulation 4(c)(1)]

Designation of Inspecting authority

We hereby certify that the.....type boilers working pressure......kg/square cm built by Messrs...... at...... under makers number was erected under our supervision and inspected at various stages of erection by the Competent Person and that the erection and workmanship were satisfactory and in accordance with the Standard Conditions for construction of land boilers under the Indian Boilers Act, 1923.

All welded seams were subjected to post weld Heat treatment and Nondestructive examination wherever applicable and found satisfactory.

and belief.

"FORM III

[See regulation 4(c)(ii)]

Constructor's Certificate of Manufacturer and Test

1. Description	Constructor's Name and address					
	Manufactured for/Stock purposes					
	Contract No.					
	Type of Boiler Length overall					
	Diameter inside Largest belt					
	Design pressure					
	Reheater PressureKg/ cm ²					
	Maker Number of boiler					
	Year of Make					
	Total heating surface					
	Evaporation capacity					
	(for calculation of relieving capacity of safety valves)					
	Final Temperature of steam (Design) Superheater Outlet°C					
	Reheater Outlet°C					
	Brief description of boiler					
2 Parts manufactured at	Name of Components(s)					
the constructor's works						
	Drawing No					
	Manufactured by					
	Identification marks					
	Part(s) manufactured, inspected at all stages of construction by					
	(Inspecting Authority).					
	Part(s) hydraulically tested and inspected after test by					
3. Parts manufactured	Name of Components(s)					
outside the constructor's	Drawing No					
WOIKS						
	Manufactured by					
	Identification marks					
	Part(s) manufactured inspected at all stages of construction by					
	(Inspecting Authority).					
	Part(s) hydraulically tested and inspected after test by					
	r arto, ny araunoany tostoa and inspectod after tost by					

Note: Similar information is to be furnished for each part manufactured outside the constructor's Works.

4. Construction

The construction is in accordance with Chapter III/ V / X / XII / XIV of the Indian Boiler Regulations.
Number of longitudinal seams in shell/drum in each belt
Number of longitudinal seams in furnace in each ring
Number of circumferential seams in shell/drum
Number of circumferential seams in the furnace
Details of repairs, if any, carried out in welded seams during construction
Details of heat treatment
All welded seams were subjected to Radiographic examination to the satisfaction of the Inspecting Authority, where required.

Note : Strike out whichever is not applicable

				Shell j	plate	Tube J	plate		Head		ize	
.oN	Nomenclature	Nominal dia.	ug na the second s	Thickness in mm.	Inside radius mm.	Thickness in mm	Inside radius mm	Thickness in mm	$Type^*$	Radius of dish in. mm	Manholes No. & S	Hydrostatic test lbs./sp.in
1	2	3	4	5	6	7	8	9	10	11	12	13

5. Details of Drums/Shells

*Indicate (1) Flat (2) Dished (3) Ellipsoidal (4) Hemispherical.

6. Headers and Boxes

Description	Size and shape	Thickness in	Head	Head or end				
		mm	Shape	Thickness in mm	$Kg/ \text{ cm}^2$			
		1	1	1	1			

7. Mountings

No.	Nomenclature	Material	Type	No.	Size
1.	Main stop valve				
2.	Auxiliary stop valves				
3.	Safety valves (a) (b) (c)				
4.	Blow down valves				
5.	Feed Check valves				

Manufacturer	
Identification marks of valves	
Maker's No.	
Туре	
Life (mm) Drawings Nos.	
Valves details :	
Material	
Valve Seat	
Flat/Bevel	
Diameter of valve seating	
Valve Body :	
Material	
Opening at neck	
Opening at outlet	
Material	
Process of manufacture	
Chemical composition	
Dimensions :	
Outside diameter of coil	
Section of wire	
Number of coils	
Free length of coils	
Test results :	
Place of test Date	
Closing down pressure	
Pamarks ·	
Does the valve chatter?	
Does the valve seat leak?	
Blow off pressure	
Type of valve and extract of test results	
Type of valve	
Diago of test	data
Constant 'C' by test results	date
Capacity of the valve for the intended blow	off pressure
Signature of Maker's representative	INSPECTING AUTHORITY witnessing tests

9. Certified that the particulars entered herein in manuscript by us are correct and that parts and fittings in sections 2 to 9, against the names of which entries are made have been used in the construction and fittings of the boiler.

The particulars shown against the various parts used are in accordance with the enclosed certificates from the respective Makers.

The design of the boiler is that as shown in Drawing Nos.

Least pressure is for (name of the component) _____ and is _____ kg/cm²(g)

Maker's Representative

(Name, signature and stamp)

(Name, signature and stamp)

Maker

Name, signature and stamp of Competent Person

Name, signature and stamp of Inspecting Authority

"FORM III-A

[See regulation 4(e)]

Certificate of Manufacture and test for Pipes

Certificate 1	No I	Date:
Name of pa	rt & Quantity	
Drawing No.	D	
Maker's na	me and address	
Customer's	Name & Address	
Design pres	ssureKg/cm ²	
Design tem	perature°C	
RAW MAT	TERIAL	
Pr	ocess of manufacture	
Fu	lly Killed/rimmed	
Ch	emical composition	
He	eat Number	
Siz	ze	
Те	st Certificate No. & Date	
Na	ume of the Steel Maker	
Na	me of Inspecting Authority	
PIPES		
Pre	ocess of manufacture	
Ma	ain dimensions	
Тс	lerances	
Sp	ecification	
Be	end test on pipe or weld	
Fla	attening test	
Ot	her tests	
Те	nsile strength	
Ch	emical Composition	
He	eat treatment	
Ну	/draulic test Kg/cm ²	

Identification mark of Inspecting Authority/Well known pipe maker

NOTE.- In addition, the following information in respect of the material shall be furnished in a tabular form in conformity with the requirements of regulation 4(c)(vi) or the note thereto, as the case may be. The information may be given from the established test data or if the material is of standard quality an extract from the standard may be furnished instead.

Metal	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
temperature															
°C															
Et															
S _c															
Sr															
MAWP															

Tensile strength at 20°C.

Where

- E_t = Yield point at temperature t (0.2% proof stress)
- **S_c = Average stress to produce an elongation of 1% (creep) in 100,000 hours at various working metal temperatures.
- $**S_r$ = Average and lowest stress to produce rupture in 100,000 hours at the various working metal temperatures.
- MAWP = Maximum Allowable Working Pressure in Kg./cm²

Temperature range in the table may extend upto the limit of applicability of the material.

**The value of S_c and S_r need be furnished only in respect of Pipes intended to be used for working metal temperature above 454°C (850°F).

Certified that the particulars entered herein are correct. The particulars of fabricated component are shown in drawing No.

The pipe has been designed and constructed to comply with the Indian Boiler Regulations for a maximum working pressure of ______ Kg/cm² and maximum temperature of ______°C and satisfactorily withstood a water test of _____ Kg/cm² on the ______ day of ______ 20___, in the presence of our responsible representative whose signature is appended hereunder.

Maker's Representative (Name and signature)

Maker _____(Name and Signature)

We have satisfied ourselves that the have been constructed in accordance with Indian Boiler Regulations 1950. The tests conducted on the samples taken from the finished pipes have been witnessed by us and the particulars entered herein are correct.

Name and signature of Competent Person

Name and signature of Inspecting Authority/Well Known Pipe Maker

Place _____ Date ____

> NOTE (1).- This form is intended for the use of both pipe manufacturers and pipe fabricators. Only such of the columns or paragraphs that are applicable, or information that can be obtained and furnished from other certificates, need be filled or entered in this form. NOTE (2).- In the case of fabrications made from steel pipes obtained from elsewhere, particulars in regard to the "material" and "pipes" shall be taken from similar forms of certificates obtained in respect of pipes and noted in the appropriate columns or paragraphs.

NOTE-(3).- For Stock and sale purpose, one Form shall be issued for not more than five pipes.

In the case of pipes made from steel, made and tested by well known Steel Makers in India or other countries, particulars regarding the 'material' as certified by them in Form IV shall be noted in the appropriate columns or paragraphs of Raw material in this certificate.".

"FORM III-B

[See regulation 4(f)]

Certificate of Manufacture and Test for Tubes

Certificate No	Date:
Name of part & Quantity	
Drawing No.	
Maker's name and address	
Customer's Name & Address	
Design pressure Kg/cm ²	
Design temperature°C	
RAW MATERIAL	
Process of manufacture	
Fully killed/rimmed	
Chemical Composition	
Heat Number	
Size	
Test Certificate No. & Date	
Name of the Steel Maker	
Name of Inspecting Authority	
THES	
Process of manufacture	
Main dimensions	
Tolerances	
Specification	
Tensile strength	
Chemical Composition	
Elongation percentage	
Band test	
Elattening test	
Crushing test	
Elere test	
Flance test	
Ciber Tests	
Uner Tests	
Heat treatment.	
Hydraulic test	
identification mark of inspecting Authority/Well kr	iown lube maker

NOTE.- In addition, the following information in respect of the material shall be furnished in a tabular form in conformity with the requirements of Regulation 4(c)(vi) or the note thereto, as the case may be. This information may be given from the established test data or if the material is of standard quality, an extract from the standard may be furnished instead.

Metal	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
temperature															
°C															
Et															
S _c															
Sr															
MAWP															

Tensile strength at 20°C.....

Where

- Yield at temperature t (0.2% proof stress). \mathbf{E}_{t}
- **Sc = Average stress to produce an elongation of 1%(creep) in 100,000 hours at the various working metal temperatures.
- **S_r = Average and lowest stress to produce rupture in 100,000 hours at various working metal temperatures.

MAWP = Maximum Allowable Working Pressure in Kg./cm²

Temperature range in the table may extend up to the limit of applicability of the material.

**The value of S_c and S_r need be furnished only in respect of tubes intended to be used for working metal temperature above 454°C (850°F).

Certified that the particulars entered herein are correct. The particulars of fabricated component are shown in drawing No.

The tube has been designed and constructed to comply with the Indian Boiler Regulations for a maximum working pressure of _____ Kg/cm² and maximum temperature of _____°C and satisfactorily withstood a water test of ____ Kg/cm² on the _____ day of _____ 20__, in the presence of our responsible representative whose signature is appended hereunder.

Maker's Representative (Name and signature)

Maker _____(Name and Signature)

We have satisfied ourselves that the have been constructed in accordance with Indian Boiler Regulations 1950. The tests conducted on the samples taken from the finished tubes have been witnessed by us and the particulars entered herein are correct.

Name and signature of Competent Person

Name and signature of Inspecting Authority/Well Known Tube Maker

Place		 	
Date _	 		

- NOTE (1).- This form is intended for the use of both tube manufacturers and tube fabricators. Only such of the columns or paragraphs that are applicable, or information that can be obtained and furnished from other certificates, need be filled or entered in this form.
- NOTE (2).- In the case of fabrications made from steel tubes obtained from elsewhere, particulars in regard to the "material" and "Tubes" shall be taken from similar forms of certificates obtained in respect of pipes and noted in the appropriate columns or paragraphs.

NOTE-(3).- For Stock and sale purpose, one Form shall be issued for not more than ten tubes.

In the case of tubes made from steel, made and tested by well-known Steel Makers in India or other countries particulars regarding the 'material' as certified by them in Form IV shall be noted in the appropriate columns or paragraphs of Raw material in this 'certificate.".

"FORM III-C [See regulation 4(g)] Certificate of Manufacture and test of Boiler Mountings and Fittings

Certificate N	rtificate No Date:														
Name of par	t														
Quantity			SL N	ю											
Drawing No															
Maker's nar	ne and	addres	S												
Customer's	Name	& Add	dress												
Design pres	sure			kg./	cm ²										
Design temp	perature	e 		°C											
Metal	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
temperature															
°C															
MAWP															
MAWP = M	laximu	m Allo	owable	Worki	ng Pres	ssure ir	n Kg./c	m²							
Hydraulic te	st pres	sure		kg./	cm ²										
Main dimen	sions														
Specification	n														
Inspecting A	uthori	ty's Ide	entifica	tion M	arks						••				
Chemical co	mposi	tion													
Physical test	t result	s													
(i)	t	ensile s	strengtl	h											
(ii)	t	ransver	rse ben	d test.											
(iii)) е	longat	ion												
Other Tests.															
RAW MAT Pro Ful Spe Hea Siz Tes Na Na Cer The	ERIAL press of ly kille ecificat at Num e st Certi me of I me of I rtified t	f manu ed/rimr ion ber ficate 1 he Ma inspect	facture ned No. & I iker ing Au e partic has	Date thority ulars ei been o	ntered	herein ed and	by us a constr	re corr ucted t	ect. o com	 ply wi	th the	 Indian	Boiler	· Regul	ations
1950 for a n	naximu	m wor	king pi	ressure	of		k	g./cm ²							
and maximu	im tem	peratu	re of		'C and	satisfa	ctorily	withsto	ood a h	iydraul	1c test	using v	water o	r keros	ene or
any other su	itable	liquid	to a pro	essure	of		k§	g./cm ⁻ c	on the	•	(day of			······································
20 in the	e presei	nce of (our resj	ponsibl	e repre	esentati	ive who	ose sigr	nature	is appe	nded h	ereund	er:		
Maker Room	ecentet	ive						М	KED						
(Name and a	sonatu	1VC re)						1 V1 <i>F</i>	Mame	and Ci	matura				
	ngnatu	10)						(1 value		Snature)			

We have satisfied ourselves and the _____ has been constructed and tested in accordance with the requirements of the Indian Boiler Regulations, 1950. We further certify that the particulars entered herein are correct.

Name and signature of Competent Person who witnessed the tests Name and signature of Inspecting Authority

Place ______
Date _____

Note: (1)In the case of valve chest made and tested by well known Foundries or Forges recognized by the Central Boilers Board in the manner as laid down in regulations 4A to 4H, particulars regarding the material as certified by them, in Form III-F / Form III-G & Form IV, shall be noted in the appropriate columns or paragraphs in the certificates and in case of certificates from Well Known Foundries or Forges is produced, such certificate may be accepted in lieu of the certificate from Inspecting Authority in so far as it relates to the testing of material specified in the Form.

(2) In case of safety valves, details and test results as required in item No.8 of Form-III shall also be furnished duly signed by manufacturer and inspecting authority.

(3) For Stock and sale purpose, one Form shall be issued for not more than fifty mountings and fittings.".

"FORM III-D (deleted)

&

FORM III-E (deleted)

"FORM III-F

(See regulations 73 to 80)

CERTIFICATE OF MANUFACTURE AND TEST OF CASTINGS

Certificate No. and date

Heat Number* and date of pouring

Maker's name and address

Customer's name and address

Drawing Nos.

Description and quantity______Sl.No. _____

Foundry identification_____

Chemical composition

Heat treatment

Physical test results.

- (i) Tensile strength
- (ii) Transverse bend test
- (iii) Elongation
- (iv) Other tests

Certified that the particulars entered herein by us are correct. This satisfies the requirements of Indian Boiler Regulations, 1950.

Maker's Representative (Name and signature)

Maker _____

(Name and Signature)

Name and signature of Competent Person

Name and signature of Inspecting Authority/Well Known foundry

*for castings of size more than 100mm Heat number must be as Cast.".

"FORM	III-G
--------------	-------

(See regulations 81 to 85)

CERTIFICATE OF MANUFACTURE AND TEST OF FORGINGS Certificate No. and date
Heat Number
Details of raw material
Maker's name and address
Customer's name and address
Drawing Nos
Description and quantitySl.No
Forge shop identification
Chemical composition
Heat treatment
Physical test results.
(i) Tensile strength
(ii) Transverse bend test
(iii) Elongation
(iv) Other tests
Certified that the particulars entered herein by us are correct. This satisfies the requirements of Indian Boiler Regulations, 1950.

Maker's Representative (Name and signature)

Maker _____

(Name and Signature)

Name and signature of Competent Person

Name and signature of Inspecting Authority/Well Known Forge.".

"FORM III-H

(See regulation 4)

CERTIFICATE OF MANUFACTURE AND TEST FOR (HEADERS,DESUPERHEATERS/ATTEMPERATOR,BLOWDOWNTANK,FEEDWA TERTANKS, ACCUMULATOR, DEAERATOR)

T.C.NO.:			I	DATE :	
Name of the Part	:				
Maker's Name & Address	:				
Customer's Name & Address	:				
Drawing No.	:		Design (Kg/cm²)	Pressure	:
Process of Manufacture,)		Design Tem	np.(°C)	:
Material condition,		Refer enclosed Raw	Heat Treatn	nent	:
chemical composition, Tensile Strength,	material Test Certificates or Form IV-A in lieu of Raw material Test	Hydraulic Pressure	Test	:	
Tolerances,		Certificates	Non-destrue	ctive	:
Bend Test, Flattening Test etc.		-	Testing		

Inspecting Authority Identification Mark:

Item No.	PART NAME	MATERIAL SIZE	QUANTITY	MELT No.
01	PIPE			
02	END COVER			
03	STUBS			
04	BRANCH PIPES			
05				
06				

Certified that the particulars entered herein are correct.

The parts have been constructed to comply with the Indian Boiler Regulations for a working pressure of -------- and temperature of ------and satisfactorily withstood a water test of -- on the -- day of -- in the presence of our responsible representative whose signature is appended hereunder.

Final Inspection Date :

Signature and Seal of Maker's Representative

Signature and Seal of Maker

Final Inspection Date :

We have satisfied ourselves that the...... have been constructed in accordance with Indian Boiler Regulations, 1950. The tests conducted have been witnessed by us, wherever applicable and the particulars entered herein are correct.

Name and Signature of Competent Person

Name and Signature of Inspecting Authority

Place : Date :.

"FORM III- I

(See regulation 4)

CERTIFICATE OF MANUFACTURE AND TEST FOR DISHED ENDS / END COVERS

T.C.NO.:			1	DATE :	
Name of the Part	:				
Maker's Name & Address	:				
Customer's Name & Address	:				
Drawing No.	:		Design (Kg./cm²)	Pressure	:
Process of Manufacture,			Design Tem	np.(°C)	:
Material condition, chemical		Refer enclosed Raw material Test Certificates or Form IV-A in lieu of Raw material Test Certificates	Heat Treatm	nent	:
Strength, Tolerances, Bend Test Flattening Test	:		Hydraulic Pressure	Test	:
etc.			Non-destru Testing	ctive	:

Inspecting Authority Identification Mark:

ITEM No.	PART NAME	MATERIAL SIZE	QUANTITY	SPECN.	MELT No./ PLATE NO.	TC NO & DATE
01	PLATE / FORGING					

Certified that the particulars entered herein are correct.

Signature and Seal of Maker's Representative

Signature and Seal of Maker

Final Inspection Date :

We have satisfied ourselves that the _____have been constructed in accordance with the Indian Boiler Regulations, 1950. The test conducted have been witnessed by us and the particulars entered herein are correct.

Name and Signature of Competent Pertson

Place : Date :". Name and Signature of Inspecting Authority

FORM IV

STEEL MAKER'S CERTIFICATE OF MANUFACTURE AND RESULTS OF TESTS

[Regulation 4(c)(iv) & 4(f)]

Designation of rolling mill

We hereby certify that the material described below has been made by M/s. by the process, as per specifications and rolled by and has been satisfactorily tested in the presence of our Test House Manager or his representative in accordance with the stipulated tests and tolerances.

For gothic bars/scalps, billets and hot rolled strips which are to be processed further by the same manufacturer for making tubes/pipes, the physical properties are not required to be mentioned by the steel manufacturer.

Date of tests	
Ordered by	
Boiler Number	

Signature or Initials Test House Manager Date

Order Number

	RESULTS OF TESTS									
r	er		Size of plate and bar		ınd bar	es	8 8			
Charge Numbe	Brand & Numb	Part of Boiler	Length Ft. in.	Breadth Ft. in.	Thickness or diameter in 32nds in.	Number of piec	Tensile breakir strength in ton per sq. in.	Elongation in inches	Bend Tests	Remarks
~										

Chemical analysis.....

Note: Where the steel is manufactured by a maker, who is not recognised as a Well-known Steel Maker, the certificate of test shall be signed by the Inspecting Authority.

"FORM IV-A

[See regulation 4(c)(iv)]

CERTIFICATE OF MANUFACTURE AND RESULTS OF TESTS IN LIEU OF ORIGINAL TEST CERTIFICATES

Boiler component	Quantity	size	Cast/Heat No. Plate No.	Steel Making Process	Specificatio	on	
1	2	3	4	5	6		
Name of Steel Maker Maker	r/Part		Certificate	No. & Date		Hee	at Treatment
7				8			9
% Chemical Analy alloying	sis CMnPSS elements	Si* other	Yield strength (Kg/mm ²)	U.T.S. (Kg/mm^2)	Elongation % Gauge Length	Bend Test	Name of the inspecting authority
	10		11	12	13	14	15

*(Carbon, Maganese, Phosphorus, Sulpher, Silicon).

Certified that the particulars entered herein by us are correct. This satisfies the requirements of Indian Boiler Regulations, 1950.

Maker's Representative (Name and signature)

Maker ______(Name and Signature)

Name and signature of Competent Person Name and signature of Inspecting Authority".

Counter foil	FORM V				
No.	[Regulation 381(c)]				
	PROVISIONAL ORDER UNDER SECTION 9 OF THE INDIAN BOILERS ACT OF 1923				
are hereby permitted to use the	are hereby				
(Registry No) Boiler Rating	permitted to use the Boiler				
made by and bearing Maker's number at a maximum pressure of lbs. per square inch pending the issue of or	(Registry No) Boiler Rating				
	made by and bearing				
refusal of a certificate within six months from the	Maker's number at a maximum				
become void.	pressure of lbs. per square inch				
Date Inspector of Boilers	pending the issue of or refusal of a certificate				
	within six months from the date thereof after				
	which period this order will become void.				
	Dated Inspector of Boilers				
	N.B.: This order must be produced on demand by any authorised person and surrendered to Chief Inspector on receipt of orders.				
FORM VI

.....Boiler Inspection Department

CERTIFICATE FOR USE OF A BOILER

(Regulation 389)

Registry Number of Boiler	Type of Boiler
Boiler Rating	Place and year of manufacture
Maximum Continuous Evaporation	
Name of Owner	
Situation of Boiler	
Repairs	
Remarks	
Hydraulically Tested on	to lbs. per sq. inch

The loading of thesafety value is not to exceedFee Rs.paid onDated atthis20.....

Competent Person Countersigned Chief Inspector See Reverse for "Conditions"

CONDITIONS

(REVERSE OF FORM VI)

(1) No structural alteration, addition of renewal shall be made to the boiler otherwise than in accordance with section 12 of the Act.

(2) Under the provisions of Section 8 of the Act this certificate shall cease to be in force:

- (a) on the expiry of the period for which it was granted; or
- (b) when any accident occurs to the boiler; or
- (c) when the boiler is moved the boiler not being vertical boiler the heating surface of which is less than two hundred square feet, or a portable or vehicular boiler; or
- (d) save as provided in section 12 of the Act, when any structural alteration, addition or renewal is made in or to the boiler; or
- (e) if the Chief Inspector in any particular case so directs when any structural alteration, addition or renewal is made in or to any steam-pipe attached to the boiler; or
- (f) on the communication to the owner of the boiler of an order of the Chief

Inspector or Inspector prohibiting its use on the ground that it or any boiler component attached thereto is in a dangerous condition.

Under Section 10 of the Act, when the period of a certificate relating to a boiler has expired, the owner shall, provided that he has applied before the expiry of that period for a renewal of the certificate be entitled to use the boiler at the maximum pressure entered in the former certificate, pending the issue of orders on the application but this shall not be deemed to authorise the use of a boiler in any of the cases referred to in clauses (b), (c), (d), (e) and (f) of sub-section (1) of section 8 occurring after the expiry of the period of the certificate. (3) The boiler shall not be used at a pressure greater than the pressure entered in the certificate as the maximum pressure nor with the safety valve set to a pressure exceeding such maximum pressure. (4) The boiler shall not be used otherwise than in a condition which the owner reasonably believes to be compatible with safe working.

Note: The particulars and dimensions regarding this boiler may be obtained by the owner on payment in the prescribed manner on application to the Chief Inspector.

FORM VII

INSPECTING AUTHORITY'S CERTIFICATE OF INSPECTION UNDER CONSTRUCTION DESIGNATION OF INSPECTION AUTHORITY

[Regulation 501(e)]

We hereby certify that type, Economiser, consisting of sections and tubes to each section was constructed for a working pressure of lbs. Messrs under our supervision and inspected at various stages of construction by the Competent Person and that the construction and workmanship were satisfactory and in accordance with the standard conditions for the design and construction of Economiser laid down in Chapter XI of the Indian Boiler Regulations, 1950. Identification Mark on each section.

Branch Pipe on other pressure part.

Position of same.

The sections on completion were subjected to a water pressure of lbs. per sq. in. for ten minutes in the presence of the Competent Person on and satisfactorily withstood the test in accordance with Reg. 504.

Samples of the material used in the constructions of the Economiser were tested in the presence of the Competent Person and were found to comply with the tests prescribed in Chapter XI of the Indian Boiler Regulations, 1950.

We have satisfied ourselves that the construction and dimensions of the Economiser are as shown in the Maker's Drawing No. signed by us and that the particulars entered in the maker's certificate of

Signature of Inspecting Authority

FORM VIII

WORKS ADDRESS

Constructor's Certificate of Manufacture and Test [Regulation 501(D)]

1.	Description	Type of Economiser		No. of tub	bes	
		No. of Sections		lbs.		
		Intended working pressu	ire	Total heat	ting	
		Year of manufacture		Surface of	f tubes	
		Description				
2.	Inspecting	Economiser constructed	under supervision of			
	Authority	Sections hydraulically to	ested for minutes	and inspected after tes	st by	
3.	Construction and Workmanship	Details are in Drawing No All castings are well finished free from external defects, porous places and blow-holes and true to dimensions without warping. Where chapters are used, there is satisfactory fusion with the metal. Chapters properly tinned with metal free from lead.			and true to	
		All screw threads are of	Whitworth form.			
		All components	parts are manufa	ctured to limit	gauges to	secure
		interchangeability th	roughout.		5 5	
4.	Economisers and fittings	Parts	Material	Maker	Inspectin Rem	g Officer arks
	Particulars of material used	Headers Tubes and/or Pipes Valve Chest Bolt				
		THICKNESS OF	PARTS AND TENSI	LE TEST—LIMIT		
5.	Part of Economiser	Thickness in 32nds	Tensile strength limits to tons	Elongation limits of to %	Gauge Length	Brand and No.
	Headers Tubes Bolts					
	Certified mentioned abov	that the particulars we have been used in t	entered herein are construction and f	prrect and that the ittings of the Econ	e parts and fin nomiser.	ttings
	The particulars sho possession. The design of the e	we against the various pa	end view with principal I	e with the Maker's cer parts fully dimensione	rtificates in our	in

 Drawing No.
 The Economiser has been designed and constructed to comply with the Indian Boiler

 Regulations for a working pressure of
 Ibs. per sq. in. at our Works Regulations for a working pressure

 of
 Ibs. per sq. in. at our Works above-mentioned and the sections satisfactorily withstood a water test

 of
 Ibs. per sq. in. for

 minutes on
 day of

 minutes on
 20....

 minutes of Engineer who witnessed the test
 Designation of Maker

 Dated at
 20.....

Signature of Inspecting Authority **Note:** The drawing of the Economiser and Maker's certificate of manufacture showing results of tests for tensile strength and elongation must accompany this certificate and if the economiser has been built under the supervision of an Inspecting Authority their certificate in Form VII must accompany.

FORM IX

(Regulation 528)

INDIAN BOILERS ACT, 1923

BOILERS INSPECTION DEPARTMENT ECONOMISERS REGISTRY NUMBER



MEMORANDUM OF INSPECTION OR REGISTRATION BOOK

MISCELLANEOUS

District
Owners
Address of Factory
Nearest Railway Station
Economiser Registered at
Register Book No
Registry Number
Approved Working Pressure
Economiser Rating
Registration Book filled at
Remarks on transfer etc.

on	
Page	
Verified on	
bs	
Inspection fee	
on	

PROVISIONAL ORDER AND CERTIFICATE RECORD

Fee	Date of payment	Date of Inspection	<i>Certificate</i> No. and Date	Period of Certificate	Working pressure	Economiser Rating	Remarks and Inspector's initial	
Т	уре	of		Economiser				
Maker Intende Place a Maker' Descrip	Maker Intended Working Pressure Place and year of make Maker's No Description of Economiser							
No. of tubes					length Dia.			
Thickness Internal dimensions No. of Headers Thickness of Headers Length of Top Branch Pipe Length of Bottom Branch Pipe Dimensions of cap openings Diameter of cap bolts				Thickness				

MOUNTINGS

No.	Diameter	Туре	Position	Material
-----	----------	------	----------	----------

Relief	Valve		
Stop Valve			
Blow Down			
Thermometers			
Pressure Gauge			

Additional Fittings

MAKER'S CERTIFICATE

Name	of		Make
Maker's Hydraulic Test Pressure			
Maker's Drawing No.			
Name of Inspecting Authority			
Name of Maker of Material			
	Tubes		
Process	Headers		
	Bolts		
Tubaa		Test Results	F
Tubes		I	C
Headers Pines		T T	E
Bolts		T	2
		% Sulphur	
		% Phosphoru Makar'a Id	ns Antification Mark
		Position	
	HEADERS		
	TUBES		
	BRANCH PIPES		
	BOLTS		

HEATING SURFACE

Total Heating Surface	
Calculations made by Calculations checked by Least pressure, that for Approved working pressure Chief Inspector's remarks and signature	submitted on on lbs lbs

INSPECTOR'S NOTES

	FORM X
Counterfoil	[Regulation 525(e)]
	No.
No.	Provisional Order under the Indian Boilers Act, 1923
Name of the person or firm to which	
Provisional Order is granted.	are hereby permitted to use the Economiser Ry. No
Description of Economiser	Economiser Rating made by and bearing Maker's No.
Maker's No.	at a maximum pressure of lbs. per sq. in/maximum
Rating	temperature of °F pending the issue or refusal of a certificate within
Pressure permitted	six months from the date thereof after which period this order will become
Period	void.
Date	Dated at this day of 19
Inspector	Inspector

FORM XI

.....Boiler Inspection Department

CERTIFICATE FOR THE USE OF AN ECONOMISER

(Regui	lation	530	١
(Regu	auon	330	J

Registry Number of Economiser	Туре	
No. of tubes		
Number of Headers		
Economiser Rating	Place and year of manufacture	
Name of owner		
Situation of Economiser		
Repairs		
Remarks		
H las l'all dad las	kg. per sq. cm.	
Hydraulically tested on	to lbs. per sq. in.	
I/We hereby certify that the about the provisions of Section 1923) to be worked at a maximum temperature of °F or the period from	ove described Economiser is perm on of the Indian Boile pressure lbs. per to	nitted by me/Chief rs Act, 1923 (V of sq. in./maximum
This loading of the safety valve is not exceed,Fee Rs.Dated atThisComparison </td <td> lbs.</td> <td></td>	lbs.	
Countersigned	Competent Person	Chief Inspector

CONDITIONS

(REVERSE OF FORM XI)

(1) No structural alteration, addition or renewal shall be made to the Economiser without a written permission from the Chief Inspector.

(2) This certificate shall cease to be in force-

- (a) on the expiry of the period for which it was granted, or
- (b) when any accident occurs to the Economiser, or
- (c) when any structural alteration, addition or renewal is made in or to the Economiser, or
- (d) save as provided in section 12 of the Act, when any structural alteration, addition or renewal is made in or to the Economiser; or
- (e) on the communication to the owner of the Economiser of an order of the Chief Inspector or Inspector prohibiting its use on the ground that it is in a dangerous conditions.

(3) The Economiser shall not be used at a pressure greater than the pressure/temperature entered in the certificate as maximum pressure/temperature not with the relief valve set to pressure/temperature exceeding such maximum pressure/temperature.

(4) The Economiser shall not be used otherwise than in a condition which the owner reasonably believes to be compatible with safe working.

N.B.: Details regarding this Economiser are recorded in a Registration Book No. of which a copy may be obtained on payment on application to the Chief Inspector.

FORM XII

(Regulation 613)

Record of Welder's Qualifications/Requalifications Tests (Indian Boiler Regulations, 1950)

	Place of Test
	Date
Name of Welder	
Father's name	
Date of Birth	
Address	
Service of experience on Gas/Electric Arc years	
Signature of Welder	
Names and addresses of the firms where trained	
Tested on	(Plate, pipe, tube)
Gas of electric A.C./D.C.	
Kind of test	(Groove/Gillet/Branch)
Position	
This lange of metanial and	
Thickness of material used	
Diameter and thickness of pipe, branch or tubes used	
Quality of base material and electrode of filler rod	

RESULTS OF OBSERVATIONS

	Ма	rks
	Maximum	Awarded
A. Procedure		
1. Preparation of specimen	3	
2. Size & 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 & slags	5	
11. Dimensions of weld deposit	1	

 Quality of weld metal (Overheating, surface cracks, spongy etc.) 	surface ³
C. Physical Test	
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, carbu overheating, roughness, porosity, appearance).	risation, ⁷
	100

Signature of Competent Authority

Observation	on	radiographic	examination	(if	conducted)
Marks awarded					
Results of Oral or Writte	n examinati	on			
Marks awarded				•••••	%
GENERAL REMARKS	OF COMPI	ETENT AUTHORITY .			
TYPE AND CLASS OF	WELDING	QUALIFIED	in C	Bas or Electi	ric Arc welding.
	OF OF DT	FICATE	From		То
PERIOD OF VALIDITY	OF CERT.				. 10
PERIOD OF VALIDITY	OF CERT.			•••••	. 10

FORM XIII

QUALIFIED BOILER WELDER'S CERTIFICATE ISSUED UNDER THE INDIAN BOILER REGULATIONS, 1950

PHOTO Passport Size	(SEAL) and Signature of Competent Authority	Name of WelderFather's NameDate of BirthIdentification marksLeft Hand Thumb ImpressionSignature of WelderAddress of Welder
------------------------	--	--

Period of Validity

From	То

This is to certify that Shri son of Shri has been examined and tested in the prescribed manner in the presence of (Representative 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 of 20.... under the seal and authority of

	SEAL	Representative of Competent Authority
*Particula	ars :—	

*Particulars shall cont Tested on	ain infori	nation on the following:	Plate/Pipe/	/Tube with
position			1 1410/1 190/	
Date				
Material			Mild Steel or	alloy steel
Process				
Class of welding				
Backing strip				
Electrode			Class (Carbo	n or alloy steel)
Filter rod			Туре	
Test piece X-rayed or	not.			
Period of Validity				
From		То		
		EMPLOYMENT PA	RTICULARS	
From	То	Name of employer	Work on which engaged	Signature of employed

(COVER PAGE)

FORM XIV

[Regulation 394(C)]

INDIAN BOILERS ACT, 1923

Boiler Inspection Department Steam Pipes and Connected Fittings Identification Number



Memorandum of Inspection Book

MISCELLANEOUS

District	
Owner	
Address	
Work of Factory :	
Registration Number	of Boilers to which the pipes and fittings, particulars of which are given in this
Memorandum are con	nnected.
Remarks	
Date	Particulars of additions & alterations
Р	LAN OF STEAM PIPES & THEIR CONNECTED FITTINGS

_		FEE A	AND AP	PROVAL T	O PLAN RECO	RD		
Drawing No.	Total length of Steam Pipes	No. of Connected vessels	Fee	Date of Payment	No. & date of approval of Plan & Layout	W.P. approval Kg/cm ²	Temp allowed °C	Remarks & initial of Inspector

STEAM PIPES—PARTICULARS AND DIMENSIONS

Situation			
Ry. No. of conn	ected Boilers		
Steam Piping Sy	stem include	Diamatar (outsido)	
Pipes Material . Pipes Thickness		Make	
Attachment of F	langes	Wirke	
Elbows, Tees et	C		
Support			
Flexibility			
Drainage			
Feed			pipes
Outside	Dia.		Thickness
Maka			
макс			
Max. Pressure		Max. Temp	
Connected Vess	el	•	
No.			
Type			
Max. Design Pre	ess	Max. Design Temp.	••••••
Date of Installat	ion		
First Inspection	inside &		
Outside			
East Dines Had		hav/am ² Dec. an	
Feed Pipes Hydi	raune rest to		
Remarks	••••••		
		CALCULATIONS	
Steam Pipes :			

.

CALCULATIONS
Steam Pipes :
CALCULATIONS
Steam Pipes :

•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••

CALCULATIONS

	•••••	 	 	 	 	 	 	
•								
	•••••	 	 	 	 	 	 	
•								

INSPECTOR'S NOTE

•				
·				
	 	•••••	 	

.....

.....

"FORM XV-A

[See regulation 4 A (2)]

QUESTIONNAIRE TO BE ANSWERED BY FIRMS/COMPANIES SEEKING RECOGNITION BY THE CENTRAL BOILERS BOARD TO BECOME AN "INSPECTING AUTHORITY"

- 1. The registered name and address of the company/firm:
- 2. Address for correspondence:
- 3. The year in which the company/firm was established.
- 4. Proposed countries/areas of operation as Inspecting Authority:
- 5. Is company/firm registered in the proposed countries of operations?

If so, please give details thereof.

6. Have you any Branch or Associate Office?

If so, please give their names and addresses.

7. Is company/firm functioning as an Inspecting Authority under the Indian or International codes and standards?

If so, details thereof.

- In case of renewal of recognition as Inspecting Authority under the Indian Boiler Regulations, 1950, had you conducted inspection during the last five years?
 If yes, details thereof.
- 9. Is company/firm involved in any commercial activity other than inspection, certification and related activities under the Indian or International Codes and standards?

If so, details thereof.

- 10. Please state the types, size and the range of working pressure of the boilers which you have so far inspected during manufacture as an Inspecting Authority, also state the classes of service you render, namely:-
 - (a) Please name the various stages of manufacture at which inspections are carried out.
 - (b) Only hydraulic test after the manufacture of the boiler.
- How many Inspectors/Competent persons have you in your employment? Please give details of the qualifications held by those persons.
- 12. Have you any Testing Laboratory of your own to conduct all destructive and nondestructive tests required in connection with the manufacture of boilers? If so, details thereof.
- Have you in-house design and drawing inspection office?
 If so, details thereof.
- 14. Have you any documented quality programme established and maintained to fulfill the inspection requirements as per Indian Boiler Regulations, 1950?If so, details thereof.
- 15. Are you having Curriculum Vitae of all the inspectors/competent persons employed in the organization for inspection and certification work?
- Are you having a training programme for Inspectors/Competent persons?
 If so, details thereof.
- 17. Are you prepared to conduct the work of Inspection of boilers, economisers and their accessories strictly in conformity with the Indian Boiler Regulations, 1950?

- 18. Are you prepared to accept full responsibility for the certificate issued by you?
- Has your request for recognition as an Inspecting Authority been rejected by any Authority? If so, please give details.
- 20. Are you prepared to issue certificates for the products, you inspect, in the formats of the Indian Boiler Regulations?
- 21. Are you aware that the recognition is for a period of five years only, which is renewable after every five years on fresh assessment?

SIGNATURE & SEAL

FORM XV-B

[See regulation 4 A (2)]

QUESTIONNAIRE FOR ELICITING INFORMATION REGARDING THE COMPETENCY OF A FIRM/COMPANY TO BE RECOGNISED AS "COMPETENT AUTHORITY"

- 1. Registered name and address of the company/firm.
- 2. Address for correspondence.
- 3. Year in which the company/firm was established.
- 4. Address of branch or associate office, if any.
- 5. Principal work of the company/firm.
- 6. Does the company/firm have any training section for the welders? If so, details of the scheme to be stated.
- Does the company/firm regularly conduct tests on welds done by its welders? If so, the code followed and the details of tests carried out may please be stated.
- 8. What are the facilities that can be provided or availed of by the organisation for conducting the tests?
- 9. Is the company/firm prepared to undertake testing of welders employed by other organisation?
- In case of renewal of recognition as Competent Authority under the Indian Boiler Regulations, 1950, have you undertaken inspection and certification of welders during the last five years?

If yes, details thereof.

- 11. Whether the company/firm is prepared to conduct tests as per requirements of the Indian Boiler Regulations, 1950?
- 12. The amount of fee which the company/firm would charge from a candidate for conducting a test for the issue of certificate. Estimates under the following heads may be given:
 - (a) For the supply of tests pieces, electrodes and/or filler rods:
 - (b) For the use of welding machine:
 - (c) For machining the test pieces and preparation of specimen:
 - (d) For conducting mechanical tests (including specimen preparation):
 - (e) For non-destructive testing:
- 13. Is the company/firm prepared to examine and issue certificate to welders in accordance with the requirements of the Indian Boiler Regulations, 1950?
- 14. Is the company/firm prepared to take full responsibility for certificates issued by it.
- 15. Are you aware that the recognition is for a period of five years only which is renewable after every five years on fresh assessment?

SIGNATURE & SEAL

FORM XV-C

[See regulation 4A (2)]

QUESTIONNAIRE TO BE ANSWERED BY STEEL MAKER SEEKING RECOGNITION BY CENTRAL BOILERS BOARD TO BE NOTIFIED AS "WELL KNOWN STEEL MAKERS"

- 1. Registered Name and address of the firm/company:
- 2. Works address:
- 3. The year in which the factory was established:
- 4. Capacity for production of steel:
- 5. Process of manufacture of steel:
- 6. Variety of steel products:
- 7. Range of steel produced in each variety:
- 8. Various national and international Standards to which the steel products are manufactured:
- 9. Testing facilities available within the works:
- 10. Types of tests conducted:
- 11. If so, by whom conducted:
- 12. Are the tests conducted by the firm/company acceptable to the other organisations of the country? If so, by whom?
- Is the firm/company prepared to conduct tests in accordance with the Indian Boiler Regulations, 1950?
- 14. Is the firm/company recognised as "Well Known Steel Maker" in any other country?
- 15. Whether the firm/company has any previous experience to produce steel in accordance with the provision of Indian Boiler Regulations, 1950 under the inspection of any recognised Inspecting Authority.

If yes, details thereof.

- Whether the firm/company is prepared to furnish certificates under the provision of Indian Boiler Regulations, 1950.
- 17. In case of renewal of recognition, had you manufactured and supplied steel as "Well Known Steel Maker" under the Indian Boiler Regulations, 1950 during the last five years?

If yes, details thereof.

- 18. Whether the firm/company manufacture steel from the ore itself or from ore and scrap or scrap only:
- 19. Whether the firm is agreeable to show their manufacturing process and in-house testing facilities to a team consisting of three members appointed by the Board.
- 20. Are you aware that the recognition is for a period of five years only which is renewable after every five years on fresh assessment?

SIGNATURE & SEAL

FORM XV-D

[See regulation 4A (2)]

QUESTIONNAIRE TO BE ANSWERED BY FOUNDRY/FORGE SEEKING RECOGNITION BY CENTRAL BOILERS BOARD TO BE NOTIFIED AS "WELL KNOWN FOUNDRY/FORGE"

- 1. The registered name and address of the firm/company:
- 2. Works address:
- 3. The year in which the factory was established:
- 4. Capacity of the foundry/forge:
- 5. (i) Capacity for production of forgings/castings:
 - (ii) Maximum weight and size of forgings/castings:
- 6. Detailed description of the type of job done by the firm/company:
- 7. Materials of castings/forgings (ferrous-plain or alloy steel, non-ferrous alloys):
- 8. Range of forgings/casting produced in each variety:
- 9. Testing facilities available within the works:
- 10. Details of testing facility, namely chemical and physical tests:
- 11. Types of test conducted:
- 12. If so, by whom conducted?
- 13. Are the tests conducted by the firm/company itself acceptable to the other organisations of the country? If so by whom?
- Is the firm/company prepared to conduct tests in accordance with the Indian Boiler Regulations, 1950?
- 15. Is the firm/company recognised as "Well Known Foundry/Forge" in any other country?

- 16. Whether the firm/company is in a position to produce forgings/casting in accordance with any national/international specifications fulfilling the minimum requirements of Indian Boiler Regulations, 1950:
- 17. Whether the firm/company has any previous experience to produce forgings/castings in accordance with the provision of Indian Boiler Regulations, 1950 under the inspection of any recognised Inspecting Authority.

If yes, details thereof.

- Whether the firm/company is prepared to furnish certificates under the provision of Indian Boiler Regulations, 1950.
- 19. In case of renewal of recognition, had you manufactured and supplied castings/forgings as "Well Known Foundry/Forge" under the Indian Boiler Regulations, 1950 during the last five years? If yes, details thereof.
- 20. Whether the firm/company is agreeable to show their process of manufacture, inhouse testing facilities to a team of members appointed by Central Boilers Board.
- 21. Are you aware that the recognition is for a period of five years only, which is renewable after every five years on fresh assessment?

SIGNATURE & SEAL

FORM XV-E

[See regulation 4A (2)]

QUESTIONNAIRE TO BE ANSWERED BY TUBE/PIPE MAKER SEEKING RECOGNITION BY CENTRAL BOILERS BOARD AS "WELL KNOWN TUBE/PIPE MAKER"

- 1. Registered name and address of the firm/company:
- 2. Works address:
- 3. The year in which the factory was established:
- 4. Capacity of production of Tube/Pipe and the tonnage details per during the last three years:
- 5. Steel grades of Tube/Pipes under production:
- 6. Size range of Tubes/Pipes under production:
- 7. Process of manufacture of Tube/Pipes:
- 8. (a) Whether the firm/company is producing the raw material or purchasing the raw material.

(b) If the raw material is purchased, give the details of purchase in last three years.

- (i) from well known steel makers under Indian Boiler Regulations, 1950.
- (ii) from other sources.
- 9. If purchase is as per 8(b)(ii), state whether the raw material is tested at Tube maker's/Pipe maker's premises under Indian Boiler Regulations, 1950.
- If the firm/company is producing raw material, state whether the firm/company is recognised as Well Known steel maker under Indian Boiler Regulations, 1950.
- 11. Major manufacturing facilities available with the firm/company:
- 12. Testing facilities available with the works:
- 13. Types of tests conducted on Tubes/Pipes (enclose complete quality control plan from raw material stage to finished stage along with the quality control and inspection personnel of the firm):

- 14. The details of failures and rejection
 - (a) By Non-Destructive Testing(NDT)
 - (b) By Destructive Testing.
- 15. Whether the firm/company is in a position to manufacture Tubes/Pipes and also provide for their necessary testing facilities in accordance with the provision in Indian Boiler Regulations, 1950.
- 16. Whether the firm/company has any previous experience to produce Tubes/ Pipes in accordance with the provision of Indian Boiler Regulations, 1950 under the inspection of any recognised Inspecting Authority. If yes, details thereof.
- 17. Whether the firm/company is prepared to furnish certificates under the provision of Indian Boiler Regulations, 1950.
- 18. In case of renewal of recognition, had you manufactured and supplied Tubes/ Pipes as "Well Known Tubes/Pipes Maker" under the Indian Boiler Regulations, 1950 during the last five years? If yes, details thereof.
- 19. The name of the firms to whom the firm /company has supplied Tubes/Pipes:
- 20. Whether the firm/company is agreeable to show their manufacturing process and in-house facilities to a team consisting of three members appointed by the Board.
- 21. Whether the firm/ company is aware of the fact that the recognition is for a period of five years only, which is renewable after every five years term on fresh assessment?

SIGNATURE & SEAL

FORM XV-F

[See regulation 4A (2)]

QUESTIONNAIRE TO BE ANSWERED BY A LABORATORY SEEKING RECOGNITION BY CENTRAL BOILERS BOARD AS A "WELL-KNOWN MATERIAL TESTING LABORATORY"

- 1. The registered name and address of the laboratory:
- 2. Address of the laboratory:
- 3. The year in which the laboratory was established:
- 4. (a) Whether the laboratory is recognised by the Central Government or by a State Government:
 - (b) If so, please furnish particulars of recognition:
- 5. Name and address of branch or associate laboratory, if any:
- 6. How long the laboratory has been functioning for testing of the products?
- 7. Equipment or machines available in the laboratory for carrying out the non-destructive or destructive testing:
- 8. Type and range of tests carried out by the laboratory:
- 9. Details of testing personnel and their qualifications or experience:
- 10. Are you prepared to conduct the testing of specimens strictly as per the requirements of the Indian Boiler Regulations, 1950?
- 11. Has your request for recognition as an approved laboratory been rejected by any authority? If so, please give details.
- Are you prepared to issue the certificates for the products you test in the formats of the Indian Boiler Regulations, 1950?

13. Whether you have any previous experience of conducting tests in accordance with the provision of Indian Boiler Regulations, 1950 under the inspection of any recognised Inspecting Authority.

If yes, details thereof.

- 14. In case of renewal of recognition, had you conducted tests under the provisions of Indian Boiler Regulations, 1950 during the last five years?If yes, details thereof.
- 15. Are you agreeable to show your laboratory and in-house facilities to a team consisting of three members appointed by the Board?
- 16. Are you aware that the recognition is valid for a period of five years only, which is renewable for five years on fresh assessment?.

SIGNATURE & SEAL

FORM XV-G

[See regulation 4A (2)]

QUESTIONNAIRE TO BE ANSWERED BY A FIRM SEEKING RECOGNITION BY CENTRAL BOILERS BOARD AS "REMNANT LIFE ASSESSMENT ORGANISTION" UNDER REGULATION 391A

1.	The registered name and address of the firm/company		:
2.	Address of the firm /company		:
3.	The year in which the firm /company was established		:
4. (a)	Whether the firm/company is recognised by the Central		
	Government or by State Government	:	
(b)	If so, furnish particulars of recognition	:	
5.	Name and address of branch or associate firm,		
	if any	:	
6.	How long your firm has been functioning for		
	Remnant Life Assessment of Boilers and Boiler		
	Parts	:	
7.	Equipment or machines available in the		
	laboratory for carrying out the non-destructive		
	or destructive testing	:	

8. Type and range of tests carried out by the firm/company:

9. Details of testing personnel and their qualifications and experience

:

:

:

- 10. Are you prepared to conduct the testing of specimens strictly as per the requirements of the Indian Boiler Regulations, 1950?
- 11. Has your request for recognition as an approved organisation been rejected by any authority?If so, please give details.
- 12. Are you prepared to issue the certificates for the tests recommended in the formats of the Indian Boiler Regulations, 1950?
- 13. In case of renewal of recognition, had you conducted Remnant Life Assessment of Boilers and Boiler parts under the Indian Boiler Regulations, 1950 during the last five years?

If yes, details thereof.

- 14. Are you agreeable to show your laboratory and in-housefacilities to a team consisting of three members appointed by the Board?
- 15. Are you aware that the recognition is valid for a periodof five years only, which is renewable for five years on fresh assessment.

SIGNATURE & SEAL".

"FORM XVI-A

[See regulation 4C (2)]

National Emblem

Serial No.

File No.

CENTRAL BOILERS BOARD

CERTIFICATE OF APPROVAL FOR INSPECTING AUTHORITY

This is to certify that the Inspection and Quality Management System of:

M/s

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C(2) of the Indian Boiler Regulations, 1950, as an INSPECTING AUTHORITY for operation in

This certificate is valid for five years, i.e. upto.....

Validity is subject to the adherence to the quality Control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No.____

FORM XVI-B

[See regulation 4C (2)]

National Emblem

Serial No.

File No.

CENTRAL BOILERS BOARD CERTIFICATE OF APPROVAL FOR COMPETENT AUTHORITY

This is to certify that the Examination of Welder System of:

M/s

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C(2) of the Indian Boiler Regulations, 1950, as a COMPETENT AUTHORITY for operation in

This certificate is valid for five years, i.e. upto.....

Validity is subject to the adherence to the quality Control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-C

[See regulation 4C (2)]

National Emblem

Serial No.

File No.

CENTRAL BOILERS BOARD

CERTIFICATE OF APPROVAL FOR WELL-KNOWN STEEL MAKER

This is to certify that the Inspection and Quality Management System of:

M/s

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C(2) of the Indian Boiler Regulations, 1950, as WELL KNOWN STEEL MAKER, for the manufacture of ______

for their factory at_____

This certificate is valid for five years, i.e. upto_____

Validity is subject to the adherence to the quality control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-D

[See regulation 4C(2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD

CERTIFICATE OF APPROVAL FOR WELL-KNOWN FOUNDRY

This is to certify that the Inspection and Quality Management System of:

M/s.

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C (2) of the Indian Boiler Regulations, 1950 as a WELL KNOWN FOUNDRY for the manufacture of

for their factory at_____

This certificate is valid for five years, i.e. upto_____

Validity is subject to the adherence to the quality control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____
FORM XVI-E

[See regulation 4C(2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD

CERTIFICATE OF APPROVAL FOR WELL KNOWN FORGE

This is to certify that the Inspection and Quality Management System of:

M/s _____

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C (2) of the Indian Boiler Regulations, 1950 as a WELL KNOWN FORGE for the manufacture of

for their factory at_____

This certificate is valid for five years, i.e. upto_____

Validity is subject to the adherence to the quality control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-F

[See regulation 4C (2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD CERTIFICATE OF APPROVAL FOR WELL KNOWN TUBE MAKER

This is to certify that the Inspection and Quality Management System of:

M/s

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C(2) of the Indian Boiler Regulations, 1950, as a WELL KNOWN TUBE MAKER for the manufacture of Tubes of Sizes from ______ to

for their factory at_____

This certificate is valid for five years, i.e. upto_____

Validity is subject to the adherence to the quality control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-G

[See regulation 4C(2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD

CERTIFICATE OF APPROVAL FOR WELL KNOWN PIPE MAKER

This is to certify that the Inspection and Quality Management System of:

M/s

has been evaluated by the Central Boilers Board and has been granted recognition under regulation 4C(2) of the Indian Boiler Regulations, 1950, as a WELL KNOWN PIPE MAKER for the manufacture of pipe of sizes from ______ to

for their factory at_____

This certificate is valid for five years, i.e. upto_____

Validity is subject to the adherence to the quality control prescribed under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-H

[See regulation 4C(2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD CERTIFICATE OF APPROVAL AS WELL-KNOWN MATERIAL TESTING LABORATORY

This is to certify that after evaluation of the inspection and material testing system of the following laboratory, the Central Boilers Board has granted recognition to it under sub-regulation (2) of regulation 4C of the Indian Boiler Regulations, 1950, as a Well-known Material Testing Laboratory.

M/s

This certificate is valid for five years, i.e. upto_____

Note:- The recognition will be as per the standards specified under the provisions of the Indian Boiler Regulations, 1950.

Date of Issue

Certificate No._____

FORM XVI-I

[See regulation 4C (2)]

National Emblem

Serial No.

File No

CENTRAL BOILERS BOARD CERTIFICATE OF APPROVAL AS WELL KNOWN REMNANT LIFE ASSESSMENT ORGANISATION

This is to certify that after evaluation of the inspection and material testing system of the following firm, the Central Boilers Board has granted recognition to it under sub-regulation (2) of regulation 4C of the Indian Boiler Regulations, 1950 as a Well Known Remnant Life Assessment Organisation.

M/s._____

This certificate is valid for five years, i.e. upto_____

Date of Issue

Certificate No._____

Secretary".

FORM XVII

CERTIFICATE OF MANUFACTURE AND TEST FOR CERTIFICATE OF MANUFACTURE AND TEST FOR SMALL INDUSTRIAL BOILERS INCLUDING SMALL INDUSTRIAL SOLAR BOILERS

			(M	anufa	ctured	Unde	r Chaj	pter X	IV)						
1.	Ν	laker's	Name	•						Y	′ear		of	Ма	ke
 Manufac Location Boiler Id Drawing D. Design Size of B 	ctured f of Inst entifica No Code . Boiler	for allation ation		· · · · · · · · · · · · · · · · · · ·	Con Alte Wor	npeten eration king P	it Perso No Pressur	on's st 	amp Cm ²)						
Len	gth (M	eters)	Wi	idth (1	Meters)			Hei	ight (Me	tres)		Diame	ter (M	etres)
7. Shell/Fu Material S	irnace/ pecific	Tube Plates/Flan ation C	ge Deta	ils CAL	COMF	POSI	TION			ME	CH	ANIC	AL PROI	PERT	IES
		С	Si		Mn	Р	S		Y		S	U.1	T.S. 9	6	EL.
Boiler Tub	bes/Pipe	e/Pads Details	· · · · · · · · · · · · · · · · · · ·	 С	HEMI	CAL	СОМ	POSI	TION		ME	CHAN		 ROPE	ERTIE
Specificati	on			С	Si		Mn	Р	S	_	Y	S	<i>U.T.S.</i>	%	EL.
Tube	e														
Pipes						•••••					•••••				
Pads															
8. Volumet	ric Cap	acity													
9. Heating S	Surface	e (Sq. Metres)													
10. Nozzle	connec	tion													
	(a) \$	Steam Outlet	 (No.			Size			a	nd	 Tyj	be of l	Nozzles)		
	(b) (Safety Value										-			
	(u) ·	Salety valve.	(No.			Size	e		a	nd	Ty	pe of l	Nozzles)		

(c) Auxiliary (/	Air vent)		
	(No.	Size	and Type of Nozzles)
(d) Blowoff Va	alve		
	(No.	Size	and Type of Nozzles)
(e) Feed Valv	/e		
	(No.	Size	and Type of Nozzles)
11. Shop Hydro Test Pressure	(Kg. Cm ²)	Date	

Signature of Manufacturer

We certify that the above boiler constructed under our supervision and inspected at various stages of construction by the Competent Person and that the construction, workmanship were satisfactory as per Indian Boiler Regulations.

Inspecting Officer

Signature of Inspecting Authority

Dated this Day of 20.....

"FORM XVIII

[See regulation 392(4)]

QUESTIONNAIRE FORM FOR REPAIRER OF BOILERS/ECONOMISER/STEAM LINE/FEED WATER LINES

- 1. (a) Registered name of the firm and its permanent address.....
 - (b) Address of the workshop:
- 2. Year of establishment
- 3. Classification applied for—
 - (a) Special Class (For any Boiler Pressure)
 - (b) Class I (For Boiler Pressure upto 125 kg.cm²)
 - (c) Class II (For Boiler Pressure upto 40 kg./cm²)
 - (d) Class III (For Boiler Pressure upto 17.5 kg/cm²)
- 4. Type of jobs executed by the firm earlier, with special reference to their maximum working pressure, temperature and the materials involved, with documentary evidence

.....

 (a) Whether the firm has ever been approved by any Boilers' Directorate/Inspectorate? If so, give details.....

(b) Has your request for recognition as a repairer under Indian Boiler Regulations, 1950 been rejected by any Authority? If so, please give details.....

- Whether having rectifier/generator, grinder, general tools and tackles, dye penetrant kit, expander and measuring instruments or any other tools and tackles under regulation 392(5)(i).
- 7. Detailed list of technical personnel with designation, educational qualifications and relevant experience (attach copies of documents) who are permanently employed with the firm
- 8. How many working sites can be handled by the firm simultaneously?.....
- 9. Whether the firm is prepared to execute the job strictly in

	conformity with the regulations and maintain a high standard of work?
10.	Whether the firm is prepared to accept full responsibility for the work done and is prepared to clarify any controversial issue, if required?
11.	Whether the firm is in a position to supply materials to required specification with proper test certificates if asked for?
12.	Whether the firm has an internal quality control system of their own? If so, give details
13.	List of welders employed with copies of current certificate issued by a Competent Authority under the Indian Boiler Regulations, 1950.
•••••	
Date Place	Name & Signature of the authorised signatory of the firm with stamp

- **Note 1:** The recognition of the firm as a repairer shall be for a period of two years, thereafter they shall apply for renewal of their recognition at least two months before the expiry of the said period.
- **Note 2:** In case the repairer is found violating the provisions of the Act or Regulations knowingly or unknowingly, the firm shall be blacklisted under intimation to Chief Inspectors or Directors of Boilers of all the States/Union territories and renewal shall not be done in any case.".

"FORM XIX

[See regulation 376(ff) and 376(fff)]

DETAILS TO BE FURNISHED ALONGWITH APPLICATION FOR INSPECTION OF BOILER AFTER TWELVE/TWENTY FOUR MONTHS OF THE CERTIFICATION UNDER REGULATION 390 AS PER APPENDIX 'JA' AND APPENDIX 'JB'

Name and address of the owner
Registry number of the boiler
Steam pressure and temperature
Rate of steam generation
Heating surface
Year of make
Brief description of boiler
Type of construction (Whether riveted or welded)
Whether fired or waste heat boiler
Date of registration
Details of past exemption granted by the Government, if any
Date of last annual inspection
Expiry date of current certificate
Working pressure at which last certificate was issued
Details of past repairs (year-wise)
Remark as entered in the last certificate
Quality of boiler feed water
Whether requisite number of feed pumps are in satisfactory working condition at present?
Number of safety valves mounted on shell/drum and super heater
Total number of soot blowers provided in boiler

21.	Number of soot blowers in working condition	
22.	Whether safety valves are blowing satisfactorily at or below design pressure?	
23.	Whether safety valve assembly is free from jamming as verified by operating casing lever?	
24.	Whether high and low water level alarm is in good condition?	
25.	Whether main steam stop valves, feed check valves, blow down valves and master pressure gauge in working condition?	
26.	Whether additional requirements for automatic boilers as per regulation 281A are complied with? (If 'No', give details)	
27.	Last date of calibration for master pressure gauge, temperature indicator/recorder for superheater, hot reheat, cold reheat and main steam line	
28.	(a) Last date when boiler protection devices were satisfactor	ily tested
	and details thereof	
	(b) Last date when boiler protection devices were tested by simulation	
29.	Details of boiler stoppages in last twelve months with reasons and remedies thereof.	
30.	Present irregularities in instruments and controls if any observed in control-room of boiler house	
31.	Details of present boiler leakage.	
32.	Present operating pressure of the boiler	
33.	Whether water quality is tested on-line (enclose copy of test report showing values of analysis including Total Dissolved Solids(TDS)	
34.	State at what intervals such test is carried out	
35.	When boiler was last opened for internal and/or external cleaning?	

36.	State at what intervals such cleaning is carried out	
37.	. Whether there was any shut down since last inspection when the boiler could have been offered for inspection?	
38.	. Whether working pressure of the boiler ever exceeded in the past beyond certified limit? If any, give details	
39.	. Details of boiler accident which took place in the past, if any	
40.	. List of Boiler Operation Engineers/Attendants	
41.	. Irregularities, if any, noticed in the past in compliance of the Act.	
42.	. Whether guidelines laid down by Central Boilers Board for granting exemption to the waste heat boilers are fulfilled or not?	

General Manager (Generation)

Remarks of the Competent Person who verified correctness of above statement paying check visit to the Boiler House.

Competent Person".