File No: Boiler Division:

$\frac{\text{REPORT OF INSPECTION FOR REGISTRATION OF/RENEWEL OF CERTIFICATES FOR BOILER/ECONOMISER}{\text{ETC}}$

PART-1 GENERAL

1.1 Name and address of the factory : 1.2 Name and address of the owner :

1.3 Registration number of the boiler & location : New, Boiler House

1.4

Type of boiler	Working Pressure	Rating	Capacity of boiler	Fuel Used

- 1.5 Register number of other connected boiler if any :
- 1.6 Brief account on the repair carried out since

Last inspection :

1.7 Extension/modification of steam line made after Last inspection :

- 1.8 Qualified personnel in charge of operation of boilers
 - (a) Boiler operation engineer(Name)

1) Certificate No...../.....

- (b) Boiler operators-
- (c) Boiler operators-
- 1.9 Remittance details of inspection fee:

PART-II(a)

<u>DETAILS OF INSPECTION CONDUCTED ON 19-09-2015 & 29-12-2015 OPEN TEST/HYDRAULIC TEST/STEAM TEST(FOR BOILER/ECONOMISER) PRESSURE PARTS</u>

SL No.	Pressure Parts	Inspection items	Inspection Method	Judgment standard	Observ ations
2.1	Boiler(water/ steam drums)/ shell	Boiler drum/ shell/ coil type etc.	(a) Inspection through manhole and check for damage, deformation, overheating, discoloration, leaks of water and steam pitting, corrosion and adhering soot etc. (b) Behavior under pressure	Shall be no damage, deformation, overheating, discoloration, leaks, pitting, marked corrosion soot problems etc	
2.2	Furnace/Flue	Furnace/ Flue (internal/ external/dry back/ wet back/ once through/ reverse etc.)	(a) Look for water side corrosion, deformation, pitting, leakage of water/ steam, adhering of soot, supports (localized overheating) (b) Behavior under pressure	Shall be no damage for deformation, overheating, corrosion, pitting, leak soot problems etc.	
2.3	End plates	Endplates/ tubes	(a) Expanded/ welded joints of smoke plates tube with endplates, condition of fusible plugs, gussets, supports, stays etc.(b) Behavior under pressure	Shall be no damage for deformation, overheating, corrosion, pitting, leak soot problems etc., leak through expanded/ welded joints, tubes, good condition of fusible plugs	
2.4	Water tubes/ smoke tubes	Water tubes, smoke tubes, stay tubes etc.	(a) From peepholes and fire holes check for damage, bulging, local overheating, bending, adhering soot, welding defect, expansion joint etc (b) Behavior under pressure	Shall be no damage, bulging, local over heating, leaks, corrosion, adhering soot	
2.5	Super heater	Super heater tubes, headers etc.	(a)(1) From peephole, cleaning hole etc. check for bending, discoloration,	(1) Shall be no bending, discoloration, bulging,	

			bulging, cracks, steam leaks, corrosion and dirt (2) Check the temperature of superheated steam (b) Behavior under pressure	cracks, leaks, marked corrosion and dirt (2) Shall be in normal temperature range.	
2.6	Economizer	Tubes etc.	(a)(1) Check for water leaks, cracks, damage, corrosion and dirt (2) Check feed water temperature difference between inlet and outlet (b) Behavior under pressure	(1)Shall be no water leaks, cracks, damage, marked corrosion and dirt (2) Shall be no abnormality in temperature difference	
2.7	Any other items (specify)				

PART-II B

Instruction/ suggestion for improvement issued (including repair/ replacement and major repairs like change in design/ alteration etc.) as noted below

Place:

Date: Inspector of Factories and Boilers

PART-III(A)

MOUNTINGS AND ACCESSORIES

SL No.	Item	Working Condition	Observation/ Remarks
3.1	Safety valves(Nos)		
3.2	Main steam stop valves		
3.3	Blow down valves		
3.4	Auxiliary valves		
3.5	Feed Check Valves		
3.6	Relief valves/ pipes		
3.7	Drain valve for water wall headers		
3.8	Fusible plug		
3.9	Non return valves		
3.10	Water level gauge (a) Valve & Cocks (b) Gauge glass		
3.11	Pressure gauges		
3.12	Any other item (Specify)		

PART-III(B)

Instruction/ suggestion for improvement issued (including repair/ replacement and major repairs like change in design/ alteration etc.) as noted below

Date:
* Strike off whichever not applicable

Inspecting Officer
Inspector of Factories and Boilers

PART- IV(A)

Place:

OTHER CONNECTED PARTS

SL No.	Item	Working Condition	Observation/ Remarks
4.1	External surroundings		
	(a) Casing and brick wall		
	(b) Insulating materials		

^{*} Strike off whichever not applicable

4.2	Foundation and Installation	
4.3	Oil heater	
4.4	Burner and connected equipments	
4.5	Combustion chamber	
4.6	Stocker and grate	
4.7	Blowers	
	(a) ID/FD fans	
	(b) Soot blower	
4.8	Chimney	
4.9	Explosion door etc.	
4.10	Service tanks	
4.11	Automatic control systems	
4.12	Control panel and operation panels	
4.13	Starting and Stopping	
4.14	Main safety controller	
4.15	Flame detector	
4.16	Fuel supply and allied system	
4.17	Fuel and air flow rote control devises	
4.18	Water level controller	
4.19	Water treatment equipment	
4.20	Feed water pump and motors	
4.21	Injector(No. of feed pumps, shall be two, if	
	injector is not provided)	
4.22	Feed water tank	
4.23	Any other item (Specify)	

PART- IV(B)

Instruction/ suggestion for improvement issued (including repair/ replacement and major repairs like change in design/ alteration etc.) as noted below

Place:	Inspecting Officer
Date:	Inspector of Factories and Boilers

* Strike off whichever not applicable

PART- V(A)

CONNECTED STEAM LINES

SL No.	Inspection Items	Inspection Method	Judgment standard	Observations	Action taken
5.1	Steam pipe	Check for leak of water and steam, damage, bending and corrosion	Shall be no leaks, damage, abnormal bending or marked corrosion		
5.2	Expansion joint and pipe support fittings	Check for damage and check expansion/ contraction function	Shall be no damage, expansion and contraction shall be normal		
5.3	Draining	Check for accumulation of drain, steam traps	Shall be no accumulation		
5.4	Insulating material	Check for damage	Shall be no damage		
5.5	Outdoor piping and under ground piping	Check for flooding	Shall be no flooding		
5.6	Glands, flanges, steam traps etc.	Check for leak of water and steam, damage and looseness of bolts	Shall be no leaks, damage or looseness		

PART- V(B)

Instruction/ suggestion for improvement issued (including repair/ replacement/maintenance and major repairs like change in design/ alteration etc.) as noted below

Place: Date: * Strike off wl	nichever not applicable		Ins	Inspecting Officer pector of Factories and Boilers
PART- VI				
INSPECTI	ON DETAILS FOR REGISTRATION	OF NEW BOIL	ER/ ECONOMISOR, REN	EWEL OF CERTIFICATE
	nments received vide a conducted on Boiler erection was carried		or of Factories and Boilers. M	laterial identified on
			nspecting officer: nspector of Factories and Boi	lers,
1	Den test of boiler conducted on to Kg/squ Den test of boiler conducted on to Kg/squ Den test of boiler conducted on to Kg/squ Den test of boiler conducted on test of	are cm for minut	es.	
B. STE	AM LINE INSPECTION			
	Along with registration of boiler Approval Order No	dated	of Director of F	factories and Boilers
3	Work carried out by M/s 2. Extension/ modification of existing ste Approval No work carried out up to 3. Open test carried out 4. Hydraulic test carried out on 5. Condition of steam line	safety valve	ognized vide No valid set to(in case of PRV's	s)
C. CON	DITION OF BOILER/ ECONOMISER Provisional issued for use of Boiler N		ED STEAM LINES FOUNI of working pressure	
FAC	OMENDED FOR PROHIBITION/ CO TORIES AND BOILERS/ DIRECTOR	OF FACTORII		INT DIRECTOR OF
Place: Date:	Fvide letter no		Ins	Inspecting Officer pector of Factories and Boilers

* Strike off whichever not applicable Note

ized operator / supervisor of the hollers

- 1. Inspecting officer is instructed to pursue the documents also maintained by the authorized operator / supervisor of the boilers for the preparation of inspection report. (eg. Log book of the boiler, quality of feed water, operational problems encountered etc.)
- 2. All part columns of this inspection report shall be filled up by the inspecting officer in his own handwriting.
- 3. Attach separate sheets, in case the space provided for suggestion/improvement is not sufficient.
- 4. In respect of an accident investigation also relevant details to be made in the inspection report