#### FORM II(1)

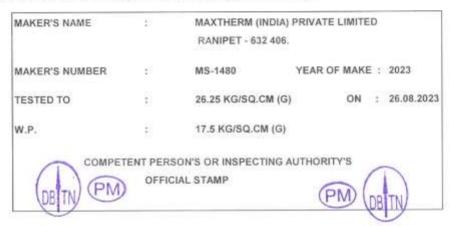
# [See regulation 4(c)(i)] CERTIFICATE OF INSPECTION FOR SHOP ASSEMBLED BOILERS

INSPECTING AUTHORITY: DIRECTOR OF BOILERS, TAMILNADU

Certificate No.MIPL/DB/110/2023-24

We hereby certify that the HORIZONTAL MULTI TUBULAR SHELL TYPE FULLY WET BACK BOILER built by M/s.MAXTHERM (INDIA) PRIVATE LIMITED, at Ranipet Works, under Maker's No. MS-1480 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 Main Shell Plate with stamp as shown hereunder:



The boiler on completion was subjected to a Hydrostatic test pressure of 26.25 kg/cm² (g) in the presence of the Competent Person on 26 th. day of August 2023 and satisfactorily withstood the Test.

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 Drg.No. 10-40-17.5-001/Rev.1 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.

Deputy Director of Boilers,
Cheanaid Checks, Chennai.

DDB/CHENNAI
No. 87 /2023-2024

Tamilnadu

DDB/CHENNAI
No. 87 /2023-2024

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#### FORM-III

#### [See regulation 4(c)(ii)]

#### CONSTRUCTOR'S CERTIFICATE OF MANUFACTURER & TEST

#### 1. DESCRIPTION

Constructor's Name and Address

: M/s.MAXTHERM (INDIA) PRIVATE LIMITED

PLOT No. 6, SIDCO BHEL ANCILLARY ESTATE,

RANIPET - 632 406

Manufactured for/Stock purposes

: Stock

contract No.

. ...

Type of Boiler

HORIZONTAL MULTI TUBULAR SHELL TYPE FULLY WET

BACK BOILER.

Length overall

: 4115 mm

Diameter inside Largest belt

: 2750 mm

Design Pressure

: 17.5 Kg/cm²(g)

Reheater Pressure

Maker Number of boiler

: MS - 1480

Year of Make

: 2023

Total Heating Surface

154 M<sup>a</sup>

: 4620 Kgs/hr.

Evaporation capacity ( For Calculation of Relieving Capacity of saftey valves)

Final Temperature of Steam(design)

: 209 °C

Superheater Outlet Reheater Outlet

. .

Brief Description of Boiler

: Horizontal Multitubular Shell Type Fully wet back Boiler of Class I Fusion Welded Construction, Single Furnace, Triple Pass with

Stay Tubes 175 Nos.

Page 01 of 8 / Form III

#### 2. Parts Manufactured at the Constructor's Works:

Name of Components(s)

: 1) Shell belt I&II, 2) Plain Furnace Ring I & II 3) C.C.C. Shell, 4) Access

Ring 5) Shell Front & Rear End Plates, 6) CCC Front & Rear End Plate

7) Cut Furnace.

Drawing No.

: 10-40-17.5-001/ Rev.1

Manufactured by

: M/s.MAXTHERM (INDIA) PRIVATE LIMITED

PLOT No. 6, SIDCO BHEL ANCILLARY ESTATE,

RANIPET - 632 406

Identification Marks

: COMPETENT PERSON'S

OFFICIAL STAMP

Part(s) manufactured, Inspected at all stages of

construction by

: COMPETENT PERSON Deputy Director of Boilers

Chennai Circle, Chennai - 5.

Part(s) hydraulically tested and

Inspected after test by

: COMPETENT PERSON Deputy Director of Boilers

Chennai Circle, Chennai - 5.

#### 3. Parts Manufactured outside the Constructor's Works:

Name of Components(s)

Drawing No

.

Manufactured by

+

Identification Marks

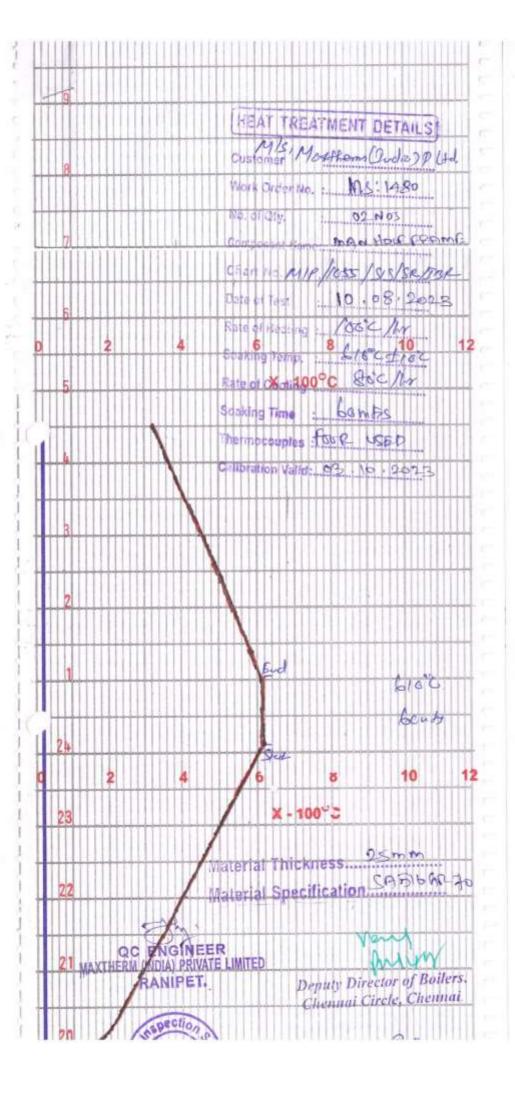
Not Applicable

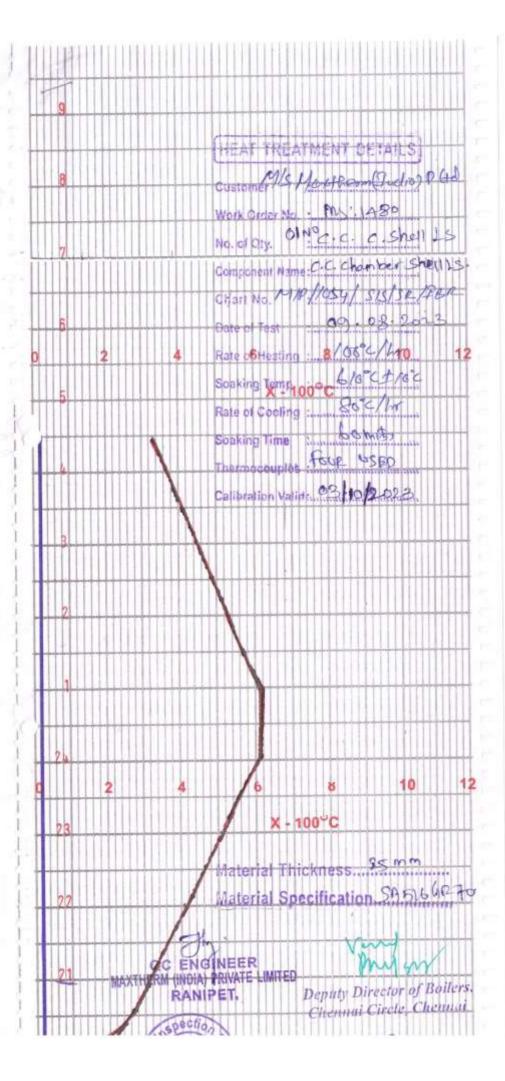
Parts(s) manufactured, inspected at all stages of construction by

Parts(s) hydraulically tested &

Inspected after test by

Page 02 of 8 / Form III





#### 4. Construction

a)The construction is in accordance with Chapter-IIIA/IX/XII/XIV-of the Indian Boiler Regulations

Number of longitudinal seams in shell/

drum in each belt

: Shell Belt I - TWO

Shell Belt II - TWO

Shell Front & Rear End Plate - One Joint in Each End Plate.

Number of longitudinal seams in

furnace

: Plain Furnace Ring-I - ONE Plain Furnace Ring-II - ONE

C.C.Chamber Shell - ONE Cut Furnace - ONE

Access Ring - ONE

Number of circumferential seams in

shell/drum ..... (including end seams)

: ONE

Number of circumferential seams in

the furnace

ONE

Details of repairs, if any, carried out in

welded seams during construction

: Nil

Details of heat treatment

: 1.Manhole Frames - Stress relieved

2.C.C.Chamber Shell L.S.Stress Relieved

( Stress Relieving Chart Enclosed)

All welded seams were subjected to Radiographic examination to the satisfaction of the Inspecting Authority, Where required.

## 5 Details of Drums/Shells

Drg.No.:10-40-17.5-001/ Rev.1

Makers No: MS-1480

Nomen-	Nominal	Length	Shell	Plate	Tubo	Diato		Hood		B.F	11.
clature	Dia(ID) in mm.	in mm.	Thk. in. mm.	Inside Radius in.mm.	Thk. in mm.	inside Radius in.mm.	in mm.	* *	Radius of dish	holes no. &	Hydro Static Test Kg/cm²
2	3	4	5	6	7	8	9	10	- 11	12	13
Shell	ID 2750	4000	18	1375	18	1372	2			2 nos. 406x306 x 25 thk	26.25
	clature 2	clature Dia(ID) in mm.	clature Dia(ID) in mm. in mm.	clature Dia(ID) Thk. in mm. in mm.	Clature   Dia(ID)   Thk.   Inside   Radius   In.mm.   In.mm.   Radius   In.mm.   2   3   4   5   6	Clature   Dia(ID)   Thk.   Inside   Thk.   In mm.   In	Clature   Dia(ID)   Thk.   Inside   Thk.   Inside   Radius   In mm.   In	Clature   Dia(ID)   Thk.   Inside   Thk.   I	clature         Dia(ID) in mm.         Thk. in side in mm.         Thk. inside Radius in mm.         Thk. in mm. in mm.         Type in mm.           2         3         4         5         6         7         8         9         10	clature         Dia(ID) in mm.         Thk. inside in mm.         Thk. Radius in mm.         Inside Radius in mm.         Thk. inside Radius in mm.         Thk. in mm.         Thk. in mm.         Thk. in mm.         Type of dish in mm.           2         3         4         5         6         7         8         9         10         11	Clature         Dia(ID) in mm.         Thk. in mm. in mm.         inside Radius in mm. in mm.         Thk. in side Radius in mm. in mm.         Thk. in side Radius in mm. in mm.         Thk. in mm. in mm.         Type of dish in mm. in mm.         holes of dish in mm. in mm.           2         3         4         5         6         7         8         9         10         11         12           Shell         ID 2750         4000         18         1375         18         1372         -         -         -         2         2 nos. 406x306

<sup>\*\*</sup> Indicate 1)Flat, 2)Dished End, 3)Ellipsoidel & 4)Hemispherical.

## FORM III contd.

6. Headers & Boxes

org.No.:10-40-17.5-00 Description	Size & Shape	Thickness	Hoad	of End	No: MS-1480 Hydrostatic
		in mm.	Shape	Thickness in mm.	test Kg/cm²
				Page 5 of 8 /	\

7 Mountings

The second secon		Type		
			No.	Size
Refer M	ountings Lis	t Enclosed		
	Refer M	Refer Mountings Lis	Refer Mountings List Enclosed	Refer Mountings List Enclosed

# 8. Details of the safety valves and test results (Regulation 4 (c) (Vii)

Manufacturer

Identification marks of valves :

Maker's No. Type Lift(mm) Drawing Nos.

Valve Details Material Valve seat Flat / Bevel

Diameter of valve seating

Valve Body Material Opening at neck Opening at outlet

Springs Material Process of

Process of manufacture Chemical composition in % Refer Enclosed Test Certificate

Dimensions		
Outside diameter of coil	- 9	
Section of wire		
Number of coils	- 3	
Free length of coils		
Test Results		
Place of test	2	
Date		
Closing down pressure	20	7
Remarks		
Does the valve chatter ?		
Does the valve seat leak ?		
Blow off pressure	\$	Refer Enclosed Test Certificate
Type of valve & extract of tes	6	
results		
Type of valve	4	
Place of test	83	
Constant "C" by test results		
Capacity of the valve for the		
intended blow off pressure		

Sd.....
Maker's Representative

Sd..... Inspecting Authority Director of Boilers (Gu)

Page 7 of 8 / Form III

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. 10-40-17.5-001/Rev.1

The boiler has been designed and constructed to comply with the regulations under the Boilers Act, 1923 for a working pressure of 17.5 Kg/cm²(g) at our works above named and satisfactorily withstood a water test of 26.25 Kg/cm²(g) on 26 th. day of August 2023 in the presence of our responsible representative whose signature is appended hereunder.

Least pressure is for (name of the component) Main Shell and is 17.53 kg/cm2(g)

S.SF.SHATRI
Machinetindiability Machinetindiab

V.S. MANI TEGHNICAL DIRECTOR Maximum (Invite) PVII LIG. RAHIPET.

Inspecting Authority
Director of Boilers

Deputy Director of Boilers, Chennai Circle, Chennai.

1.2 SEP 2023

Dates

the day of

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Page 8 of 8 / Feet 11

940	marin and a second seco				-																
8.8	Soliki campanint	ŝ	ale.	No. Plate No. Plate	Sheet Walking Process	Specific- Alten	Name of Shed Maken Part Baker	Centificato No. & Date	Treat- ment	0 >	Ma.	e d	CHEMICAL	S SI	VS18 T	9 1	IZ G	Vis. Properties YS UTB	6 Gaupe		Rend Name of the Test Impecting
10	the Bet-	+	PL-18 > 2500 a 12940	2523608 2562360052	State Origin	2 to 20 to 2	SALL Bhillian Theat Pherr	MCL/MTL-Ps,W M734738	Name	10.00 0.00 0.00 0.00 0.00	1177	884	9100	0.018	610pm	1000 - 1000 1000 - 1000	-0.000 354 0.0000 Mps	818 4	22,000	0	
8	20 mg	-	PL18 x 2500 4 12900	28772121	Dies.	88.016 0.70	SPAIN SPAIN SPAIFFUR	01-28-01-2023 RGLANT, PLAV 80710444	New Arrange	120	1.12	0 0 0 0 0 0 0 0	0.017	170	40.016 S/gam 4	40.000 etc.	-0.001s 348	12.00	25/200	8	
á	IZV Shell Bert		Pa.18 x 2500 x 12500	202360	Besk Organ	9A 516 9r.70	SALL STALL Sheel Plant	RCLATING AND	Name Name Name Name Name Name Name Name	1200	1100	87	9100	97.0	000 a	-0.015 -0.015 0.011 -0.000	252 254 000 11pm	213 a Mps	3 22/200	8	C Wed Kenner Drest Maker
-	The second	-	PL181,2500 v 15625	30228811	Bress. Ongen	25.00 0.00 0.00 0.00	SAUL SAUL SHILL Shed Plant	DE DE DE TROS RECLUITATAM RECLUITATAM	Memory	02.0	1.01	1000	8100	0.26	A days	40 DOS 40 0	40.000 at 12.000	E 8	21200	8	
8	The Intel Pept Est Pale	-	PL::fit.y2200 a 12200	302288	Brade Chapman	54.51£ 0c.71	Shifus Shifus Sheyl Plant	PICLART, PCAR BITTERS	Mornie	8150 0100	1001	100	810.0	878	0.425 60ppm	40.005 40.0 40.003 40.0	40,315 40,310 40,310 10,00	0.5	3 21200	8	Workson Dockson
6	53b Shall Pear that Plate	-	PL1811-2100 + C2500	302224	Ongs.	8A 518 6c78	SAL Britis Sheel Plant	PCUMTUPON 60756888	1	950	1.01	10.0	100	275	0000 H	40.009 40.00 40.009 40.00	<ul> <li>0.015 332</li> <li>0.0105 Mps</li> </ul>	225 A	21200		Well Kingson Steel Maker
4	Doct House End Plate	+	Ps. 381 s 2590 e 12500	2522884	Special Contract of the Contra	20.00 00.00	SAL SAL Strike Steet Plent	Dt. 15 de 2000 ROLLMTL/PLAS ROLLMTSSSS	Marma	070	1,00	100	\$100	828	Chemical	-0.009 -0.009	+0.015 332 <0.000 Mps	500 a	21200	ŏ 8	
i	State and Pare	-	PL185x 2500 +12500	362694	Base	10 to	Shibi Stool Plant	Dr. 14 06 28073 RCUWTL/PURS AUTSERAR	in the	Rep	1,010	20 gl	£ .	85	S model	40 215 A			23/200	0	
4	Plan Furnaca Hargini	П	8L191 s 2300 s 13300	382884	Base Onger	2 E 2 G	Shill Steil Part	Dr. 10.06.2922 RCLMfLPLL0 RDSSBB	Seed and	R10	1,000	4,617	Ē.	900	S S Property of	4100 401	40.000 212 40.000 10ps	525 1 Mas	21000	- N	Well firms Steel blasse
2	Nac Forest Hop-1	-	FL18t 2900 + 12500	353818	9,000	2 e	Britis Deer Plant	Dr. 10.06.5922 RCLANTLPLAS 60754736	horma Bed	200	= 5	0.00	10.0	0.23	A SECOND	44 CT 1 -CT II		100	22,000	90	
2	and Plas	Ť	PL, 101x 2350 + 12500	352834	18	10 10	SAL SAL Shits Steel Part	PL 28 UL 2823 RCLAMTLIPLAS RCTABBIE	Section 1	200	100	10.017	0.019	0.28	0.020 Figure A	47.015 -E.015 -E.000 -E.000	201 132 000 Mps	00 a	21200	98	-0.11
.3	Out Funnie	-	PL 14t x 2539 a 12500	354371	Session Chapper	20 to 0	SAL SAL Billy Steel Plant	PCL/MTL/PLM #CT/31527	Narrae	88	1,75	£8	52.5	2000	A data	2007 - 2007 -	212 May 126 May 126	25	22,000	8	Wed former Steel Maker
0 8	C.C.Osmini Shel	5	PL218 + 2500 + 12500	348198	State	20 20	State Steel Plant	ACLANT, PLAN ROTSHIRA	Appendix of the second	120	101	0.022	01010	0.22	Signal Cappa	40.015 +0.015 -0.005 -0.000	115 100 110 110 110	SES MAN	78000	8	Shall County Shall Maker
ő.	C.C. Frant End Plate	5	#L18+2589 + 12000	30288111	100	2 g 2 g	Shifts Sheel Plant	RCLANTLALM ROTRESSA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	900	401	0.000	9100	0.000	Spenda Spenda	40.018 <0.015 +0.005 +0.0005	212 212 213 214	25 W	51/200	8	Wall France. Glear Makes
ii .	C.C.C. Sour End Plans	-	PL188×2588 a 13980	342884	Basic	84.516 02.73	SALL Shell Shell Plant	HOLINTLIFUM #1756588	Į,	Rag	0.029	0.017	8000	97.0	0.020 c	-0.015 -1.015 -0.005 -0.000	21. 21. 21. 21. 21. 21. 21. 21. 21. 21.	12 S	3)/500	8	Wet Knows Sport Maker
1	Accrete Play	-	ALTZ17.2500 a 17000	344514 39335833	Residence Openion	8A.8H6 GA.72	SALL Bridge Sheel Plant	PSLATLPLAN SUTORSZE	11	E100	11.1	889	1200	0.21	Magnin A	40.00% 45.00% 40.00% 45.000%	115 387 000 Mps	SSS A	34/300	8	Wall Kneed
7	Street Fey		PL181,2500 + 12500	29528030	Mark Ongo	8A 516 0x31	SPEE. SPEE. SPEEL SON Plant	PICLATUPLAN SITTS C28	1	40.00	+100	0.00 to 0.00 t	\$10.0	928	0.000	-0.819 <0.518 -0.505 <0.000	100 Maria	576 1000	97	8	Visit Kimer Steel Make
£ .	Frit Post Stay Tubes	100	ODELLY LINTER	425H25	Benta Desper	25 2064 PT 65100	Tute Protucts affering Avail	TH 1004 DC 18-12-21622	Å.	80.0	0.451	00	1000	CE -	See	50	20	1 A25.7	3 3755	2	Well Kranti Tubi i Pau Maker
#	B nt Pays Sty Tubes	2	00455x1487ty x40001g	ATSHIB	Sasc Degen	100 M	Take Products arterities Assets	T071684 Dr. 28 /1 2822	North North	80	0.489	0 0	B .	1012	111	202	State Spring	2 42.42	100	10 20 40	Fulls Scannel Tuthe / Pige Maker
ii.	Summified)	98	A.1815,2800 s 02500	35388 29536752	Depart	SA 516 0.70	Disk San Part	RCL/MTLFLM/ 80734738	Nema Seed	10 pg	1100	88	1	SZS GROS-	11.0	-0.215 -0.515 -0.509 <0.000	115 354 000 Nps	24	222200	8	Well Angum Shret Maker
3	Summittee	ħ.	ALTBIA 2500 + 13100	29639070/2	# 15 8 8	SASTE	State, St	80734738	Total Section	42.00	主語	0000	0.014	0.22	0.000	-0.013 +0.015 -0.005 -0.0005	215 254 000 Ness	916	22220	8	Ned School

Outstact that the particulars enterted herein the on are selected. This setistics the requirements of botion linker Regulations, 1950.

S.SESHADRI "CHIEF! CASC Maxtherm (India) Pvt. Ltd. RAMPET.

Page Of at 03 / Form NA.

Deputy Director of Boilers, Chennal Circle, Chennai.



MANTHERMOND PRIVATE LIMITED NO 5, 80000 SHEL Aveilley Exists Materitemporum, PAMPET - 502 404

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-	Drawn [02]	.04	PL18 y 2100 x 12500	2903907082	18	15 to	Shisis Shart Plant	RES.INTURUM: 80734736	Steed Steed	40.00	58	100 pt	2	870	- 0.00 0.000 - 0.000 0.000	4415 -6275 4273 -6 0088		27	258	22200	N	Wed Rosson Shed Maker
	D_(mart Q34)	25	PLT8 x 2500 a 12500	310983 296390762	18	85 E E	Shight Thesi Plant	ACATLE LILE ROTATIS	11	40.00	計算	100	100	0.00	0000	40.013 -40.013 -0.000 -0.0001		27	2 th	2000	R	And Astronom Street Miches
H		2	PL-181-250E a 12500	252555	18	20.00	SAL SHALTHN Part	BC734738	įı	10.00	‡ <u>†</u>	200	4100	F 0 0	0.000	-0.01± -0.015 -0.035-0.000E		25 12	STE Mex	20208	š	Visit Stream Shell Maker
11	E)11 Cars	12	# PART MITE	2780128	b	84.18	May Bleek Priles	TOTAL	*	9,205	9.93	0.022	0000	2.24 0.0002	8 1	6 223	0100	370.18 Nimer 8	SSS.25 NYMW/	36.525.50	5	Politine Stellister
11	Purple Plug Sockel	.01	900 pm	15, 4152	b	\$5 100 80 100	Laster Shees the Armedabad	\$25,984.18-19/196 Dt 16.02.2016	100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	₽,	0.023	1	#	Ē	4123	the o	State Nimer	Manny Manny	34,12,80	3	Steel Known Steel Maker
27	22 North Pacht	t	OD REELYSS This is Falled.	3303418	3	8A100	John Saw Ltd. Nasifes.	254W0D01170918 100017711	ž	2,150	52323	0.0000	0.0000	0.1900	0.0130	0 00000	0.000.0	204.30 16a.	466.89 Mar	96.83530	5	Well From Part Part
3	Plergo Mi	-	PL2Scx 2500 # 12500	290240 248301811	Basic	SA 210 0-73	Britis Sheet Parm	MCLMTLPLW MOSSECTO	įī	0.000	0.025	2017	410.0	928	40.016 25gpm	-0.000	40 000 p	110 Most	7.1	36/200	ă	Total Stream; Down Money
10	Plug Plugg Not	0.0	#L181,2506 , G500	333869	Sept.	SAUTE	Schille Steel Plant	RCUMTLPCM 80734736	III	121	1.11	10 to 17	9.00	926	8.030 81ppm	10 D> 210 D>	-0.00	有豪	0.00 Mps	32/200	š	WAS Resent
ñ	Noath Pay Mack	(1)	00334×4.58 ×8-7.18: Lg	удеее	ă	2 to 10 to 1	Machanites Machanites Seamen Ltd.	127.0000 127.00000 127.00000	ž	8,178 8,0910	1,033	11 0 40 0 10 0 10 0	9000	1230	100	9 0000 0	1	442.12 Mp4	11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	53.54/160	6	Viol Scuent Pps & Tube maker
Pi.	Farp North	90	Pt. 70; 4.7500 9.12500	259832	Break	24.316 07.116	Britis Street Plant	FOLUME PUN FOLUMENT	Tent tent	0 0 0 0 0 0 0 0 0 0	* 88 - 8	0.019 41.02	0.017	0.04	of 0 0 th	4,000	-0.095	11.0	270	27/265	ĕ	Wolf Apparer Street Union
8	North Part Na.	-	05 6534474 Thirt-Tile og	A61720		18 19 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Mahamatha Seometa Litt.	MBL-8488/045/	3	0.0220	0.000	200	0.507	275	1100	0.0000 0	8000	1000	400.23 Nps:	36.22550	*	North Angelo
n	Notes Pyn 1936	*	D0 803 y 1.74 Ths x 0.7 ldv 1g	A61728	10 10 10 10 10 10 10 10 10 10 10 10 10 1	25.136 Sc 8 S	Mahamahin Mahamahin Sedmesi Lili.	04,211,7,210,9 100,-45,00,024,5 57,000,1	5	1,120	0.00	2,011	0.007	130	1100	0 0000	2000	Mps A	400.23 Mgs.	96,255.95	8	Well Action Page & Yake makes
31	To A Bat Franco Para	99	Op 103 x 5.54 Fex x 5.7 Mr. 4.5	AA2891	EAF	92 100 97 10	Maharahis Maharahis Seurress UK.	67-27 52 2021 MRL-6/18/52/59 8/52/27	4	2 140 1 200 1 200	0.675	0.000	800	E.	8100	0.0020	2000	No. of St. St.	25 EA	M III 70	4	Vitel Strown Pipe & Tube makes
FR.	Samp Policis	Ħ	F. 1251	286933 25545557	100	20 g g	State Steel Flast	07.27.01.2022 803.017.P1.01 2027268	Steel Seed	11.22 0.010	± 8	0.210	0 0	0.20	0.34 +0.915	4000	0.000	58	11.5	27.000	ĕ	High Novem Steel Maker
27	Court Respettion	14	PLZ2 s 2588 s 12583	250903 2509087	8900	84.518 01.40	SAL SAL Street Plant	PT 12 11 2010 ACUNT, PLIN BOSTHAS	New York	40.00	X 00 2	40.00	5 -	0.034 +0.015 40.010.08ppm	0.010 38ppm	A 000 A	40,000 p		84	21/200	š	Wall Notice Steri Haker
12	happe For thas aid	4.	00.317.V \$50.701.V3-0.1.VB	NIDERS	*	\$ 60 80 80 80 80 80 80 80 80 80 80 80 80 80	SMT LEI Althedrags,	LUSTOSH621 Dr. 28 (A. 2022)		0.0000	0.6000	2.000	0.000	0.2100	2 5125 0 0075 0 2109 0 0900 0 0210 2 2 1000 0 0210 2 2 1000 0 0210 2	00220	20000	65 80	84	40.20.50	8	Val Khowe
7	Fishge MTaducat		PL1012500 a 12500	25000000	98	5A.516 0c.70	Shibs Shell Part	MCLMTLFLMI 80730670	lion.	0.00 0.010	2,00	0.035	0.00	0.24 0.000 -0.000 54µpm	85	0.000	40000	II II	S.F	10002	8	Wed Krown Shed Makes
12	Nagzie Pipin NACO A MAAA	+	SD 154.435 45.7 Mm. Lig	A2000	3	2 d	Maharindins Seambes Cit.	Wat, 6/18/4/029 (27/2622	38.5	0.170	1,035	0.005	100	0.230	0.0	0,0054 0	1000	27 of 12	943.5 Mea	11.56/50	8	Well Kinson Figs & Tube maker
#	Flergy Hills & Missis	(4)	PL 18th 2500 + 12500	252594 29506852	Sept.	100 mg (100 mg)	Data Steel Part	MCUNTURAN MT358TH	1	W 00	400	100	100	1000	Mary	A 0000 6	40.000	11	84	25/201	š	Wed Yourse
<u>t.                                    </u>	Core Fargi Niu.ii	-	PL 181 x 2500 x 12501	333554 2955665.2	Basic	SESTE OF TO	SAR. Britis Sheel Plum Britis	RELIEFL/PLW 8E70673 5E 05.01.2023	ž.	200	1.12	200	100	0.24	0000 Mega 0	5000 -0 000 -0 000 5400m -0 000 -0 1000		8.5	8.2	20202	ă	Visit Kramel Dock Maker

Corilled that the pursualists artisted from Eq. or are somet. This satisfies the regulerness of retain Solar Regulations, 1950.

V.S. MANI

S.SESHADRI CHIEF! GA&C Maxthern (India) Put. Ltd. RANIPET.

Page 62 of 63 / Farm IVA





NOVED SERVICE AND A PROVATE LIMITED NO. 6. SECOND STREET, AND STREET, STREET,

FORM IVA.

| See the first of continued and the stated and the stated and the state is used of conceasing the TEST CERTIFICATE OF BANGGRACITIES of TEST III LUCY OF CONCEASING TEST CERTIFICATES.

| Continued the state of the stated and if the stated and if the stated and is the stated and in the stated and is the stat

The Petritor scottled that proposit store Manne's Comb. Drugster, 10 40-17, 3-80 totals, 3.

22	Пологант-дония	Oliv.	950	No. Plats	Making Process	Mile	Makeri Part Maker	& Date	Treat-	υ >	e in	0.0	B Si Cr	NB Bi		Was it		YS UTS	-	Gavee	1111	Test inspecting
n.	36 Ppc IIII 6 WIT	ev	4.78 Ne v B / 7 Mb	3822205	E.A.F	8478 818	Ahmenga	1838888054 Dr. 19 06,3000	12	0.0020	0.6300	0 00000	0.0030	000000000000000000000000000000000000000	0110	24-02.2 (200.0 0 0110.0 0300.0 0300.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 00.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AE 202.08 02 Nps		100		NA NA	West Strawer Physic stakes
198	Spirit Phys	m	3/37H.c.E. Time	NOSHB41E	3	84.108 9.9	andar say Ut.	28AM/0/872/7/0710 201926-22 7e 36 00 3603	Actorises	0.0000	0.0180	0.7420   0.0110   0.0300   0.0310   0.0	00000	D000	0000	0.0020 0.0070	70 210 34 Nps		123	36.40.60	38	Well Franch
67	40 Syru Scoul	÷	H00 431	111,010	ă.	200	Lincon Sheek Litt. Ahmedishad	13,498715-19718 Dr. 16.02.2019	12	0.12 0.000	100	0.000	80.	0.23	0 11	0,014, 11,045	100	A GROW		341200	8.0	Well Sporm
-	ET Name Pipe Neag.	in	00 411 (ABY)4 45-708	211022	NDK	\$5.00 0.8	Switcher	UT2782427.0 Dr. 19.09.3925	100	0.0000	00000	0.0000 0.00000 0.00000 0.00100 0.0010 0.0010 0.0010 0.000000	0.0050	00 1990 0	9 0	0.0030 8 0000 0	2005 pat 13 2002 Mps		-	16.0036	8.0	Sel Krium Por nater
6.	Phops totals & MI		PL 22 x 3300 + 12300	250922 2504803V	Suger Owger	154.54E 06.76	Strike Stant Plant	ACL::WLPLM 1057955	Nama- ligad	922	47.1 812.11	9000	100	0.34	2000	# 000	13 277 315 Ngo	1 0 m		000.22	Oil See	First Scrown Sheet Maker
200	42 Nazali Pipe NE	-	50 1347456 15 7 106 10	N N N	P. S.	25.155 9.10	Mahorantra Standon 16.	MSS, 4148/2018 127/2012	16.A	0.000 0.000 0.000	0000	8.000 0.000	90.0	0.004 8.230	0.018 0.0054	0.0034 0.007	17 440.13	12 Sed.5 0 Mpc	_	11.5650	9,6	Well Kirown Pape & Tulte Haller
	44 Plutps 55	40	Pt. 781 v 2350 x 12350	21508652	Base Dapper	10 E E E	SMA, Shell Rack	HCLAM LPLAN	florms heed	400 800 800 800 800 800 800 800 800 800	24	9.01B	9.021	0.00	81	9 000 -0.015 -0.015 54ppm -0.005 -0.0008	11.00	1000	15.5	22,000	9 B	Well Strongs Street Maker
-	Num Tye NE	-	00 413 r 1.01 Ths	2118222	904	2 g	Systems Sometic	7137034777 Dt. 10.00.0031	7)	0.1786 0.0000 0.00	100	0.05 NO 0.000 0 1908	0.0000	000000000000000000000000000000000000000	0000	COLUMN DESCRIPTION DE SOUS DE	18 N	11 add to	40 34,31531	171331	8.2	Wed Known Papi make
100	Blindow Fpc	-	00482×101	M8811	5/6	84.10 0.10 0.10	Mathemathia Seathless Ltd.	MSC-THENDSON Editor	ž	8 5 5 100 100 100 100 100 100 100 100 100 10	9 6	1000	0 0 0	0.000 0.000 0.240 0.005	6 H	\$482 0.00E	140 TH Man	10 SSS 24	34 3056		8.0	The Stute mass
500	Martinin Frants	24	PL. 259 x 2500 # 12360	24520387	38	84.576 0-70	SPAL Milital Sheet Plant	ACLANTICAM BESSTAL	No.	010	1.18	0.028	0.01	M.0 M.0	4015-01915 65ppm -0.005	-0.015 -0.015 -0.015 65pm -0.005-0.005	25 AS	100 m	Title:	8008	88	Wall Krown Sheel Makes
200	Martiala Cyre	to.	PL.201 x 25000 A 102000	2596277	Sast	27.318 07.70	White Shelf Plant	#01/#11/#1/# #05/50/#5	Name Test	0.012 0.012	100	0.024 40.03	0.012	9000	40.015 -0.015 60ppm -0.025	-0.015 -0.015 -0.015 60ppm -0.025-0.005	24.2	888		25-200	8.8 8	Wed Known Steel Makes
100	Part Posts (21) ME	-04	Pt.787 (100)	351868 228239070/2	Bresc Origin	10 10 10	Seel, This Ster Furn	RELIATION BETSHEE	No.	40.00	177	200	4101	9 Had-	000 000 000 000	81830 -0.015 -0.015 61ppn -0.055-0.005	12 22 20 20 Egg	Man Man		Bill	20	VPH Spinor
100	For Haade Per Peril	200	ODIZE (AST DATE (AST	1000	#	2 g 2 m	China Sammini Liboani PVT.170	USTRUBERS (DOATS	ž	0.000	8 -	0.014	0.005	9570	0.010 0	0.035 0.011	100.30	99 407.08 a Nos	60.0	STREET, N	100	Well Khawe Turk & Tuba mahar
0000	Pad Plan 1ct	-	PL2D1-3105 1 TERM	200000	Basel Onygen	40 g	Total Start Pare	80,0471,PLW 80,0471,PLW 80,048,13,9003	įI	0.23	Ŧij.	100	100	0.010	0.030 +0 040pm 0.	0.015 -1.015	13 335 008 febs	5 503 a Mysa	3 22:200		28	Wall Rossert Steel Water
-	ALES TARE NOT	-	00 114.3 e8.56 Tik x 5.758	GACSEL	3	888	United Secretary Schalaur PATE TO Toloronia	D25645	2	12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	1102	100	1000	8	0 000 0	M2 6 550 0	357.18 Max	2 m		34.84050 N	NA We	Well Knewet Pige & Tube makes
100	St. Park Park 1412	-	K,18 +180 + Obst	201282702	Basic Doygen	88.316 0.216	SALL Brills: Short Plant Shills	MCLATIUPON NOTATIO	News Seed	12.0	1.10	88	0.014	926	010	8.26 0.030 -0.015 -0.015 -0.010 Stypes +0.005 -0.003	10 M	21.5 1 Mps		221200	3.6	Well Resent Soul West

Page CE of CE / Facts NA

Centiled that the particular entered forms by as we see and. The subbles the copiese

Deputy Director of Boilers, Chennal Circle, Chennai.

Inspecting Authority Tamilnadu

S.SESHADEL CHIEFT GARC Maxthern (India) Dut. Ltd. RANIPET.

TECHNICAL DIRECTOR Maxtherm (India) Pvt. Ltd. V.S. MANI RANIPET.

-1.444

#### FORM III-A [See regulation 4(e)] CERTIFICATE OF MANUFACTURE AND TEST FOR PIPES

Certificate No : MIPL/IBR/721 Boiler Maker's No : MS-1480

Date:26.08.2023

01 Name of Part & Quantity

Feed Water Piping Assy. & Details

02 Drawing No.

: 20-40-17.5-003/Rev.0

03 Maker's name and address

: M/s. MAXTHERM (INDIA) PRIVATE LIMITED

6, Sidco Bhel Ancillary Estate, Mukuntharayapuram, Ranipet - 632 406.

04 Customer's name and address

05 Design Pressure

: Stock Purpose : 21 Kg/Sq.cm(g)

06 Design Temperature : 105 ° C

RAW MATERIAL

07 Process of Manufacture, Fully Killed/rimmed

Chemical Composition, Heat Number Size, Test Certificate No. & Date

: Refer Annexure

Name of the Steel Maker Name of Inspecting Authority

08 Process of Manufacture, Main dimensions, toler: Refer Annexure

Specification, Bend test on pipe or weld, Flattening test Other tests, Tensile strength, Chemical Composition

09 Heat Treatment

10 Hydraulic Test

: 31.5 Kg/Sq.cm(g) (Satisfactory)

Identification mark of Inspecting Authority

12 Details of Pipes

Part No.	Qty. in Nos.	OD x thk (in mm)	Material Specification	Melt No Plate No.	Test Certificate No. & Date	Name Of The Steel Maker	Name Of The Inspecting Authority
01	02	Pipe	SA 106	AB985	MSL-7/IBR/2588/	Maharashtra	Well Known
		OD 48.3 x 3.68 Thk	Gr.B		6/2022 Dt: 14.03.2023	Seamless Ltd., Mangaon	Pipe & Tube maker
02	02	Pipe	SA 106	AB985	MSL-7/IBR/2588/	Maharashtra	Well Known
	1150	OD 48.3 x 3.68 Thk	Gr.B		6/2022 Dt: 14.03.2023	Seamless Ltd., Mangaon	Pipe & Tube maker
03	02	Pipe	SA 106	AB985	MSL-7/IBR/2588/	Maharashtra	Well Known
		OD 48.3 x 3.68 Thk	Gr.B		6/2022 Dt: 14.03.2023	Seamless Ltd., Mangaon	Pipe & Tube maker
04	02	Pr.Loop Pipe	SA 106	M004943B	JSAW/Q/B22/TX210	Jindal saw Ltd.	Well Known
		OD 21.3 x 3.73Thk	Gr.B		2015508-22 Dt: 28.02.2022	Nashik.	Pipe maker
05	02	M/C Socket	SA 105	19L-0162	LSL/IBR/18-19/196	Laxcon	Well Known
		1/2" BSP x 3000# Rod Ø 50	Control of		Dt: 16.02.2019	SteelsLtd. Ahmedabad	Steel Maker
06	10	Flange 40 NB	SA 516	296933	RCL/MTL/PLM/	SAIL	Well Known
		Pl. 16 Thk	Gr. 70	2504603/1	80579558 Dt: 12.11.2019	Bhillai Steel Plant Bhillai	Steel Maker
07	02	Flange 25 NB	SA 516	296933	RCL/MTL/PLM/	SAIL	Well Known
0.004		Pl. 22 Thk	Gr. 70	2504603/1	80579558 Dt: 12.11.2019	Bhillai Steel Plant Bhillai	Steel Maker

Note: In addition the following information in respect of the material shall be furnished in a tubular 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.

Tensile Strength at 20°C.

Where

Et = Yield point at temperature t (0.2% proof stress).

Sc = Average stress to produce an elongation of 1% (creep) in 100,000 hours at various working metal temperatures.

Sr = Average and lowest stress to produce rupture in 100,000 hours at the various working metal temperatures.

MAWP = Maximum Allowable Working Pressure in Kg./cm3

Temperature range in the table may extend upto the limit of applicability of the material. The value of Sc and Sr 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 components are shown in Drawing No: 20-40-17.5-003/Rev.0

The pipe have been designed and constructed to comply with the Indian Boiler Regulations for a maximum working pressure of 21 Kg/cm²(g) and maximum temperature of 105 Deg.C and satisfactority withstood a water test of 31.5 Kg/cm²(g) on the 26 th, day of August 2023 in the presence of our responsible representative whose signature is appended hereunder.

S.SESHADRI Make CHIEFS (nOA&C Mantherny (fordia) Pvt. Ltd. RANIPET.

V.S. MANI
TECHNICAL DIRECTOR
(Mysenherm (India) Pvt. Ltd.
RANIFET.

We have satisfied ourselves that the pipes 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.

Deputy Director of Boilers, Chennai Circle, Chennai Inspecting Authority

Tamilnadu

Place

Date

Note (1):-This form is intended that of both pipe man actual and pipe fabricators. Only such of the columns or paragraphs that are applicable, or informal that applicable, or informal that applicable in this form.

Note (2):-In the case of fabrications made from sleet 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.

RATEO

# ANNEXURE EXTRACTS FROM MILL TEST CERTIFICATE

We certify that the biboverity are the results of lestin as given in the original Mail Test Certificate of material used in the manufacture of Boileville (1.35.08.2023). Dr. 25.08.2023 Boiler Meters No. 1.MS - 1480

	S m	0.008	0.0070	50 1	<0.0006
	₩o⊥	0.002		0.034	40.016
	ōΖ	0.015	0.2400 0.0200 0.0020	p 1	<0.015 58ppm
25%	15 g	0.240		0.73	A 010.00
CHEMICAL ANALYSIS%	n er	0.003	0,000.0	5036	0.017
MICAL A	a. 3	0.016	0.0710 0.0070 Sn.6.0040	0,023	40.02
と語	A M	0,031	0.7400 0.0110 0.0380 0.0070 Sn.'0.0040	8 1	1.14
	U >	0.175	0.1400	0.52	0.22
Eddy	Curr.	ž	78	61	10
Flatte-	Test Test	ž	₹	85	1971
Flaring	Į.	Š	N.	10	525
Hydra	to de de	THE CO	3	750	Ya
Bend	Test	ĕ	Sal	200	š
Elong	ation % G.L	30/50	38.40/50	34,1250	27/200
Mech. Properties	52.0	525.94 Mpe	448 22 Mpa	602 Nimm <sup>e</sup>	Mps 8
Mech. Pr	SS.	440.76 Mps	316.94 Mps	Minn Minn	377 Mpa
	Treat- ment	N.A.	Annealed	33	Norma lized
100710000000000000000000000000000000000	TC No. & Date	MSL-7/88R-2588/ 6/2022 Dt: 14,05.2023	JSAVVQ:B22/TX210 2015508.32 : Dt 28.02.3022	LSL/IBR/18-19/196 Dt; 16,02,2019	RCLMITUPLAN B0579558 Dr. 12.11.2019
Name of	The Steel Maker	Maharashna Seamless Ltd., Mangaon	Jindal saw Lid. Nashik	EIF SA 105 Laxon Steels L16. Atmedubad	SAL Unite Steel Plant Bhilai
Specu		SA 106 Gr. 8	SA 106 Gr. 8	SA 105	SA 516 Gr.70
Store	E 40	EAT	EA	5	Basic SA 516 Oxygen Gr.70
	35	9888	M004943B	1111-0162	25045001
9212	E E	0D 48.3 x 3.68 x 5 - 7 Mir. Lg	OD 21.3 x 2.73 TW x 5 - 7 httr Lg	Rod to Mi	Pt, 22 x, 2530 x 12530

V.S. MANI
TECHNICAL DIRECTOR
Maxtherm (India) Pvt. Ltd.
RANIPET.

Deputy Birgctgr of Boilers, Cherrati Circle, Chennai.



TED PRIVATE LIN OF MAKE: 20 83 480 VEAP 25.25 KG/SC.CV POW OFFICIAL STAN 60