

ERECTION WELDING SCHEDULE																
PG NO : 07																
PG NAME : Circulation System																
SYSTEM DESCRIPTION : Circulation System																
CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																
PRESSURE PARTS/ NON-PRESSURE PARTS																
ELECTRODE FILLER SPEC																
TYPE OF WELD																
PROCESS OF WELDING																
DIMENSIONS																
MATERIAL SPEC.																
SIZE																
THICK																
QTY IN NOS.																
GTAW																
SMAW																
QTY IN NOS.																
Ø2.5 Ø3.15 Ø4.0																
QTY IN GMS																
ER80S-B2																
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1797																
ER80S-B2																
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ER80S-B2																
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2338																
ER80S-B2																
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1511																
ER80S-B2																
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CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																			
PRESSURE PARTS/NON-PRESSURE PARTS																			
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD	ELECTRODE FILLER SPEC				WPS NO/REV NO.	MIN. PRE HEAT TEMP. in °C	PWHT TEMP. in °C	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV
				SIZE	THICK			GTAW	Qty in Nos.	Qty in Nos.	SMAW					SPEC. NO	ACC NORM REF.		
61	0-00-027-34662	FURN SIDE O/L TERM TUBE-RIGHT+FURN SIDE SPIRAL TO VERTICAL TRANSITION PANEL (F-17TO-R + F-17X SPOOL)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ♀	ER80S-B2	140	1210	-	-	150	Nil	20% RT subject to min 2 weld/welder/shift				01
62	0-00-027-34662	FURN SIDE O/L TERM TUBE-RIGHT+FUR INTER RHS HDR (F-17TO-R + F-18-R NIPP)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ♀	ER80S-B2	140	1018	-	-	150	Nil	20% RT subject to min 2 weld/welder/shift				01
63	0-00-027-34677	FUR FRONT VERT. I/L TERM TUBE+FURN SIDE SPIRAL TO VERTICAL TRANSITION PANEL (F-04TI + F-02X SPOOL)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
64	0-00-027-34677	FURN FRONT VERTICAL I/L TERM TUBE+FURN INTER FRONT HDR (F-04TI + F-03 NIPPLE)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
65	0-00-027-34677	FUR REAR VER I/L TERM TUBE+FUR REAR SPIRAL TO VER TRANS. PANEL (F-10TI + F-08X SPOOL)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
66	0-00-027-34677	FURN REAR VER I/L TERM TUBE+ FUR REAR INTER HDR (F-10TI + F-09 NIPPLE)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
67	0-00-027-34677	FUR SIDE VER I/L TERM TUBE+ FUR SIDE SPIRAL TO VER TRANS PANEL (F-19TI-L + F-17X SPOOL)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
68	0-00-027-34677	FUR SIDE VER I/L TERM TUBE-LEFT+FUR INTER SIDE HDR (F-19TI-L + F-18 NIPPLE)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
69	0-00-027-34677	TUBE-RIGHT+ FUR SIDE SPIRAL TO VER TRANS PANEL (F-19TI-R + F-17X SPOOL)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
70	0-00-027-34677	FUR SIDE VER I/L TERM TUBE-RIGHT+FUR INTER SIDE HDR (F-19TI-R + F-18 NIPPLE)	SA213T22 + SA213T22	33.4	5.59	GTAW + SMAW	5.59 ♀	ER90S-B3	420	2835	-	-	200	740 ± 10	20% RT subject to min 2 weld/welder/shift			100% HC, 260HB (MAX)	01
		PREPARED		CHECKED (W.T.C)		APPROVED		ANAND KUMAR S		DATE		DOC NO.		REV NO :		PAGE NO.			
		RUDRABHATLA SAIKUMAR		LAKAVATH PRAVEEN KUMAR				02-04-2019		1819-07-CIR-EWS		02		7/11					
CAUTION :		* REFER NDE MANUAL No.P5:CMX-002 REV.No.01/12-98. NOTE: ALSO REFER QUALITY GUIDELINE NO. SIP-PP-29/REV.02. REV.NO.01 - DESCRIPTION ADDED. REV.NO.02- NOTE ADDED. NOTE:HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (247 HB MAX).																	

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		CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																			
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS	PROCESS OF WELDING	TYPE OF WELD	ELECTRODE FILLER SPEC				WPS NO/REV NO.	MIN. PRE HEAT TEMP. in °C	PWHT		NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV		
							SIZE	THICK	GTAW	SMAW			Qty in Nos.	QTY in gms		Ø2.5	Ø3.15			Ø4.0	SPEC. NO
101	0-00-027-34650	STORAGE TANK NOZZLE +STORAGE TANK VENT LINK (F-33 NOZZLE + F-34)	SA182F22CL3 + SA335P12	88.9	16	GTAW + SMAW	14 	2	58	13	21	4	1012/04	150	680-720	100% RT				01	
102	0-07-217-01785	STORAGE TANK VENT LINK+STORAGE TANK VENT LINK (F-34 + F-34)	SA335P12 + SA335P12	88.9	16	GTAW + SMAW	14 	8	231	51	84	16	1010/06	150	650-670	100% RT				01	
103	0-12-850-02915 0-12-850-02916	STORAGE TANK VENT LINK+SH CONNECTING PIPE NOZZLE (F-34 + S-01 NOZZLE)	SA335P12 + SA182F12CL2	88.9	16	GTAW + SMAW	14 	1	29	7	11	2	1010/06	150	650-670	100% RT				01	
104		GAMMA PLUG	SA105 + SA106GRC			SMAW	7 	4	-	2	-	-	1101/01	150	Nil	100% LPI or MPI					
105		GAMMA PLUG	SA335P12 + SA182F22CL3			SMAW	7 	92	-	24	-	-	1102/01	200	Nil	100% LPI or MPI					
		PREPARED	LAKAVATH PRAVEEN KUMAR			CHECKED (W.T.C)			APPROVED			DATE			DOC NO.			REV NO :		PAGE NO.	
		RUDRABHATLA SAIKUMAR	LAKAVATH PRAVEEN KUMAR			ANAND KUMAR S			02-04-2019			1819-07-CIR-EWS			02		11/11				
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ERECTION WELDING SCHEDULE																					
SL. NO		DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	PG NO : 12															REV NO. :	PAGE NO.		
			PG NAME : Superheater System																		
			SYSTEM DESCRIPTION : Superheater System																		
CUST DOC NO. : 9591-102-102-QVM-V-001 CUST DOC REV. : 01																					
SL. NO		DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD		ELECTRODE FILLER SPEC				WPS NO/REV NO.	MIN. PRE HEAT TEMP. in °C	PWHT TEMP. in °C	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV
					SIZE	THICK		Qty in Nos.	GTAW	Qty in gms	SMAW		SPEC. NO					ACC NORM			
31	0-00-027-34680		BP LWR FRONT WALL PANEL+ BP UPPER FRONT WALL PANEL (S-15L + S-15U)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	9.14	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
32	0-00-027-34680		BP UPR FRONT WALL PANEL+BP UPR FRONT WALL PANEL (S-15U + S-15U)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	210	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
33	0-00-027-34680		BP UPR FRONT WALL PANEL+BP FRONT SCREEN TUBES (S-15U + S-16)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	9.14	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
34	0-00-027-34680		BP FRONT SCREEN TUBES+ BP FRONT O/L HDR (S-16 + S-22 NIPPLE)	SA213T12 + SA213T22	54	9.14	GTAW + SMAW	210	ER80S-B2	2299	1859	503	-	1012/04	150	680-720	20% RT subject to min 2 weld/welder/shift				01
35	0-00-027-34680		BP FRONT O/L HDR+ BP ROOF PANEL (S-22 NIPPLE + S-21)	SA213T22 + SA213T12	54	9.14	GTAW + SMAW	9.14	ER80S-B2	2299	1859	503	-	1012/04	150	680-720	20% RT subject to min 2 weld/welder/shift				01
36	0-00-027-34680		BP ROOF PANEL+ BP UPPER REAR WALL PANEL (S-21 + S-20U)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	210	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
37	0-00-027-34680		BP UPR REAR WALL PANEL+ BP INTER REAR WALL PANEL (S-20U + S-20I)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	9.14	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
38	0-00-027-34680		BP INTER REAR WALL PANEL+ BP LOWER REAR WALL PANEL (S-20I + S-20L)	SA213T12 + SA213T12	54	9.14	GTAW + SMAW	210	ER80S-B2	2299	1859	503	-	1009/03	150	Nil	20% RT subject to min 2 weld/welder/shift				01
39	0-00-027-34680		BP LWR REAR WALL + BP LWR REAR HDR (S-20L+S-17 NIPP)	SA213T12 + SA213T22	54	9.14	GTAW + SMAW	210	ER80S-B2	2299	1859	503	-	1012/04	150	680-720	20% RT subject to min 2 weld/welder/shift				01
40	0-00-027-34654		BP LWR FRONT HDR+ BP LWR SIDE HDRS (S-14 + S-13 ELBOW L&R)	SA335P91 + SA234WP91	406.4	90	GTAW + SMAW	78.75	ER90S-B9	222	98	130	1357	1050/06	220	740-770	100% UT			100% HC, 190HB TO 300HB	01
		PREPARED		CHECKED (W.T.C)		APPROVED		DATE		DOC NO.		REV NO. :		PAGE NO.							
		RUDRABHATLA SAKUMAR		LAKAVATH PRAVEEN KUMAR		ANAND KUMAR S		02-04-2019		1819-12-SH-EWS		02		4/10							
CAUTION :		* REFER NDE MANUAL No.PS:CMX-002 REV.No.01/12-98. REV.No.01- DESCRIPTION ADDED. REV.No.02- NOTE ADDED. NOTE:HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (247 HB MAX).																			

ERECTION WELDING SCHEDULE

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CUST No : 1819.1820 PROJECT : NTPC, TELANGANA STPP,PHASE-II(2X800 MW) WELDING CODE : I.B.R / ASME													PG NAME : Superheater System SYSTEM DESCRIPTION : Superheater System CUST DOC NO : 9591-102-102-QW-V-001 CUST DOC REV : 01							
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				SIZE	THICK		Qty in Nos.	GTAW	Qty in gms	SMAW	Qty in Nos.	SPEC. NO					ACC NORM			
71	0-00-027-34760, 0-00-027-34761	SH PLATEN REAR I/L TERM TUBE+ SH PLATEN REAR ASSY (S-33TI (2-20) + S-33 (2-20))	SA213TP347H + SA213TP347H	44.45	7.11	GTAW + SMAW	7.11	ER347	Ø2.5	Ø3.15	Ø4.0	E347	1016/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift				01
72	0-00-027-34760, 0-00-027-34761	SH PLATEN REAR ASSY+ SH PLATEN REAR O/L TERM TUBE (S-33(1)+S-33TO (1))	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.13	GTAW	8.13	Nittetsu YT304H	-	-	-	-	1054/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift				01
73	0-00-027-34760, 0-00-027-34761	SH PLATEN REAR ASSY+ SH PLATEN REAR O/L TERM TUBE (S-33 (2-5) + S-33TO (2-5))	SA213TP347H + SA213TP347H	44.45	8.13	GTAW + SMAW	8.13	ER347	995	240	-	E347	1016/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift				01
74	0-00-027-34760, 0-00-027-34761	SH PLATEN REAR ASSY+ SH PLATEN REAR O/L TERM TUBE (S-33 (6-20) + S-33TO (6-20))	SA213TP347H + SA213TP347H	44.45	7.62	GTAW + SMAW	7.62	ER347	5835	-	-	E347	1016/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift				01
75	0-10-278-01696, 0-10-278-01697	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (1) + S-34 NIPPLE)	SA213T91 + SA213T91	57.2	9.6	GTAW + SMAW	9.6	ER90S-89	397	529	139	E9015-B91	1036/08	220	745 ± 15 30	100% RT			100% HC, 190HB TO 300HB	01
76	0-10-278-01696, 0-10-278-01697	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO(2-5) + S-34 NIPPLE)	SA213T91 + SA213T91	50.8	10.16	GTAW + SMAW	10.16	ER90S-89	1267	1764	607	E9015-B91	1036/08	220	745 ± 15 30	100% RT			100% HC, 190HB TO 300HB	01
77	0-10-278-01696, 0-10-278-01697	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (6-8) + S-34 NIPPLE)	SA213T91 + SA213T91	38.1	6.6	GTAW + SMAW	6.6	ER90S-89	774	1284	-	E9015-B91	1036/08	220	745 ± 15 30	100% RT			100% HC, 190HB TO 300HB	01
78	0-10-278-01696, 0-10-278-01697	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (9-12) + S-34 NIPPLE)	SA213T91 + SA213T91	38.1	5.6	GTAW + SMAW	5.6	ER90S-89	1116	1279	-	E9015-B91	1036/08	220	745 ± 15 30	100% RT			100% HC, 190HB TO 300HB	01
79	0-10-278-01696, 0-10-278-01697	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (13-20) + S-34 NIPPLE)	SA213T91 + SA213T91	33.4	5.1	GTAW	5.1	ER90S-89	15702	-	-	E9015-B91	1036/08	220	745 ± 15 30	100% RT			100% HC, 190HB TO 300HB	01
80	0-12-179-02925	SH PLATEN REAR O/L HDR+ LINK FROM SH DESUPERHEATER-3 (S-34 TEE + S-35)	SA234WP91 + SA33SP91	558.8	88.9	GTAW + SMAW	77.79 2	ER90S-89	357	134	179	E9015-B91	1050/06	220	740-770 225	100% UT			100% HC, 190HB TO 300HB	01
PREPARED		CHECKED (W.T.C)		APPROVED		DATE		DOC NO.		REV NO :		PAGE NO.								
RUDRABHATLA SAIKUMAR		LAKAVATH PRAVEEN KUMAR		ANAND KUMAR S		02-04-2019		1819-12-SH-EWS		02		8/10								
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ERECTION WELDING SCHEDULE																			
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PRESSURE PARTS/NON-PRESSURE-PARTS																			
WELDING CODE : I.B.R / ASME																			
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD	ELECTRODE FILLER SPEC				WPS NO/REV NO.	MIN. PRE HEAT TEMP. in °C	PWHT TEMP. in °C	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV
				SIZE	THICK			GTAW	SMAW	Qty in Nos.	QTY in Nos.					Ø2.5	Ø3.15		
21	0-00-027-34630	FIN RH I/L HDR NIPP+ FINISH RH ASSY (R-12 NIPPLE + R-13 (6-8))	SA213T22 + SA213T22	38.1	4.5	GTAW + SMAW	4.5 ∅	ER90S-B3	1360	595	-	-	1013/02	150	Nil	20% RT subject to min 2 weld/welder/shift			01
22	0-00-027-34630	FIN RH I/L HDR NIPP+ FINISH RH ASSY (R-12 NIPPLE + R-13 (9-14))	SA213T22 + SA213T22	38.1	5.08	GTAW + SMAW	5.08 ∅	ER90S-B3	2610	1459	-	-	1013/02	150	Nil	20% RT subject to min 2 weld/welder/shift			01
23	0-00-027-34630, 0-00-027-34646	FINISH RH ASSY+FIN. RH O/L TERM TUBES (R-13 (1) + R-13TO (1))	SA213 UNS S30432 + SA213 UNS S30432	76.2	5.08	GTAW	5.08 ∅	Nittetsu YT304H	6800	-	-	-	1054/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift			01
24	0-00-027-34630, 0-00-027-34646	FIN RH ASSY+FIN. RH O/L TERM TUBES (R-13 (2-14) + R-13TO (2-14))	SA213 UNS S30432 + SA213 UNS S30432	63.5	4.19	GTAW	4.19 ∅	Nittetsu YT304H	53507	-	-	-	1054/02	Nil	Nil	20% RT subject to min 2 weld/welder/shift			01
25	0-00-027-34630, 0-00-027-34646	FIN RH O/L TERM TUBE+FINISH RH O/L HDR NIPPLE (R-13TO (1) + R-14 NIP)	SA213T92 + SA213T92	76.2	5.08	GTAW	5.08 ∅	9CrWV TIG/ Thermanit- MTS616	6672	-	-	-	1058/02	220	745 ± 15 30	100% RT		100% HC, 190 HB TO 300HB	01
26	0-00-027-34630, 0-00-027-34646	FINSH RH O/L TERM TUBES+FINISH RH O/L HDR NIPPLE (R-13TO (2- 14) + R-14 NIP)	SA213T92 + SA213T92	63.5	5.08	GTAW	5.08 ∅	9CrWV TIG/ Thermanit- MTS616	72279	-	-	-	1058/02	220	745 ± 15 30	100% RT		100% HC, 190 HB TO 300HB	01
27		GAMMA PLUG	SA335P12 + SA182F22CL3			SMAW	7 ∇ 2	-	-	1	-	-	1102/01	200	Nil	100% LPI or MPI			
28		GAMMA PLUG	SA335P22 + SA182F22CL3			SMAW	7 ∇ 2	-	-	1	-	-	1103/01	200	Nil	100% LPI or MPI			

ERECTION WELDING SCHEDULE																			PG NO : 19	
CUST No : 1819,1820																			PG NAME : Economist System	
PROJECT : NTPC, TELANGANA STPP,PHASE-II(2X800 MW)																			SYSTEM DESCRIPTION : Economist System	
WELDING CODE : I.B.R / ASME																			CUST DOC NO : 9591-102-QVM-V-001	
PRESSURE PARTS/NOAL-PRESSURE PARTS																			CUST DOC REV : 01	
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD	ELECTRODE FILLER SPEC				WPS NO/REV NO.	MIN. PRE HEAT TEMP. in °C	PWHT. TEMP. in °C	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SAW	Qty in Nos.	Qty in gms					Ø2.5	Ø3.15			Ø4.0
1	0-00-027-34653, 0-19-850-02050	ECO I/L LINK + ECO I/L LINK (E-04 + E-04/VALVE)	SA106GRC + SA106GRC	610	82	GTAW + SMAW	71.75 	ER70S-A1	525	860	8168	1004/04	150	610 ± 15 205	100% (ISRT + UT)				01	
2	0-00-027-34653, 0-19-850-02050	ECO I/L LINK + ECO I/L LINK (E-04A + E-04A)	SA106GRC + SA106GRC	457.2	65	GTAW + SMAW	56.88 	ER70S-A1	609	132	215	1380	1004/04	610 ± 15 165	100% RT				01	
3	0-00-027-34653, 0-19-850-02050	ECO I/L LINK+ ECO I/L HDR (E-04 + E-05)	SA106GRC + SA106GRC	457.2	65	GTAW + SMAW	56.88 	ER70S-A1	305	66	108	690	1004/04	610 ± 15 165	100% RT				01	
4	0-00-027-34653, 0-19-850-02050, 1-19-850-02837	ECO I/L LINK+ ECO HANGER I/L HDR LINK (E- 04 NOZZLE + E-04.01)	SA105 + SA106GRC	219.1	36	GTAW + SMAW	31.5 	ER70S-A1	71	16	26	55	1004/04	610 ± 15 90	100% RT				01	
5	0-00-027-34653, 1-19-850-02837	ECO HANGER I/L HDR LINK+ECO HANGER I/L HDR LINK (E-04.01 + E-04.01)	SA106GRC + SA106GRC	219.1	36	GTAW + SMAW	31.5 	ER70S-A1	141	32	52	110	1004/04	610 ± 15 90	100% RT				01	
6	0-00-027-34653, 0-19-850-02050	ECO HANGER I/L HDR LINK+ECO HANGER I/L HDR (E-04.01 + E-05A)	SA106GRC + SA106GRC	219.1	36	GTAW + SMAW	31.5	ER70S-A1	71	16	26	55	1004/04	610 ± 15 90	100% RT				01	
7	0-00-027-34631	ECO I/L HDR NIPP+ECO I/L TERM TUBE (E-05 NIPPLE + E-06TI)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1	ER70S-A1	8690	9449	-	-	1003/04	Nil 20	20% RT subject to min 2 weld/welder/shift				01	
8	0-00-027-34631	ECO I/L TERM TUBE +ECO COIL LWR ASSY (E-06TI + E-06L)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1	ER70S-A1	8690	9449	-	-	1003/04	Nil 20	20% RT subject to min 2 weld/welder/shift				01	
9	0-00-027-34631	ECO COIL LWR ASSY +ECO COIL INTER ASSY (E-06L + E-06I)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1	ER70S-A1	8690	9449	-	-	1003/04	Nil 20	20% RT subject to min 2 weld/welder/shift				01	
10	0-00-027-34631	ECO COIL INTER ASSY +ECO COIL UPPER ASSY (E- 06-I + E-6U)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1	ER70S-A1	8690	9449	-	-	1003/04	Nil 20	20% RT subject to min 2 weld/welder/shift				01	
PREPARED							CHECKED (W.T.C)			APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR							LAKAVATH PRAVEEN KUMAR			ANAND KUMAR S			15-09-2018		1819-19-ECO-EWS		01		1/4	
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							DETREMENTAL TO INTEREST OF BHEL.												REV.No.01- DESCRIPTION ADDED.	

ERECTION WELDING SCHEDULE																				
SL. NO		DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	PG NO : 19															REMARKS		REV
			PG NAME : Economiser System																	
			SYSTEM DESCRIPTION : Economiser System																	
CUST No : 1819,1820			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
PROJECT : NTPC, TELANGANA STPP, PHASE-I (2X800 MW)			PG NO : 19																	
WELDING CODE : I.B.R / ASME			PG NAME : Economiser System																	
PRESSURE PARTS/ NON-PRESSURE PARTS			SYSTEM DESCRIPTION : Economiser System																	
ELECTRODE FILLER SPEC			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
TYPE OF WELD			PG NO : 19																	
PROCESS OF WELDING			PG NAME : Economiser System																	
DIMENSIONS			SYSTEM DESCRIPTION : Economiser System																	
SIZE			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
THICK			PG NO : 19																	
MATERIAL SPEC.			PG NAME : Economiser System																	
DESCRIPTION OF PARTS TO BE WELDED			SYSTEM DESCRIPTION : Economiser System																	
ECO LWR HGR TUBE +ECO HGR TUBE (LTRH LWR ASSY) (E-08L + R-04L HANGER)			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
ECO HGR TUBE (LTRH LWR ASSY)+ECO HGR TUBE (LTRH LWR INTER ASSY) (R-04L HGR + R-04LI HGR)			PG NO : 19																	
ECO HGR TUBE (LTRH LWR INTER ASSY)+ECO HGR TUBE (LTRH INTER ASSY) (R-04LI HGR + R-04I HGR)			PG NAME : Economiser System																	
ECO HGR TUBE (LTRH INTER ASSY)+ECO HGR TUBE (LTRH UPR INTER ASSY) (R-04I HANGER + R-04UI HANGER)			SYSTEM DESCRIPTION : Economiser System																	
ECO HGR TUBE (LTRH UPR INTER ASSY)+ECO HGR TUBE (LTRH UPR ASSY) (R-04UI HANGER + R-04U HANGER)			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
ECO HGR TUBE (LTRH UPR ASSY)+ECO UPR HGR TUBE (R-04U HGR + E-08U)			PG NO : 19																	
ECO UPR HGR TUBE +ECO HGR O/L TERM TUBE (E-08U + E-08TO)			PG NAME : Economiser System																	
ECO HGR O/L TERM TUBE +ECO O/L HDR NIPPLE (E-08TO + E-09 NIPP)			SYSTEM DESCRIPTION : Economiser System																	
ECO O/L HDR NIPPLE+ ECO HGR TUBE (LTRH HDR SUPPT) (E-09 NIPP + E-08X)			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
ECO HGR TUBE (LTRH HDR SUPPT)+ECO HGR TUBE (LTRH HDR SUPPT) (E-08X + E-08X)			PG NO : 19																	
RUDRABHATLA SAKUMAR			PG NAME : Economiser System																	
LAKAVATH PRAVEEN KUMAR			SYSTEM DESCRIPTION : Economiser System																	
APPROVED			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
ANAND KUMAR S			PG NO : 19																	
DATE			PG NAME : Economiser System																	
15-09-2018			SYSTEM DESCRIPTION : Economiser System																	
* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. REV.NO.01- DESCRIPTION ADDED.			CUST DOC NO : 9591-102-102-QVM-V-001 CUST DOC REV : 01																	
1819-19-ECO-EWS			PG NO : 19																	
PAGE NO. 3/4			PG NAME : Economiser System																	

