

Corrigendum - 3 dated 16/06/2026 to CPC Tender No. BHEL/CPC/SGL/M_PCP/27/025

Work Description - Package-A: Erection, Testing, Commissioning, Trial Operation & Handing Over of Power Cycle Piping and its auxiliaries, Boiler Integral Piping, associated LP Piping, including Handling of materials at BHEL / Client's Stores / Storage Yard and transportation to site, pre-assembly, erection, alignment, welding, hydro testing, chemical/acid cleaning/pickling, detergent flushing, steam blowing, fixing of hangers & supports, application of lining, Insulation, supply & painting, Stencilling & Labelling of Unit-1 & Common system at 2x800 MW NTPC SINGRAULI STPP STAGE-III

Package-B: Erection, Testing, Commissioning, Trial Operation & Handing Over of Power Cycle Piping and its auxiliaries, Boiler Integral Piping, associated LP Piping, including Handling of materials at BHEL / Client's Stores / Storage Yard and transportation to site, pre-assembly, erection, alignment, welding, hydro testing, chemical/acid cleaning/pickling, detergent flushing, steam blowing, fixing of hangers & supports, application of lining, Insulation, supply & painting, Stencilling & Labelling of Unit-2 at 2x800 MW NTPC SINGRAULI STPP STAGE-III

A) The following clauses of Technical Conditions of Contract (TCC) are modified as mentioned below:

SL. NO.	Document/ Reference Clause	Existing Clause	Revised As								
1.	Technical Specifications of the Contract (TCC), Chapter-IX, Clause 9.0 – Note to Weight Schedule, Sl. No. 3	TCC : Chapter-IX : TCC Clause 9.0 <table><tr><th colspan="2">Note to weight schedule:</th></tr><tr><td>3</td><td>Besides PG / PGMA indicated in the weight schedule, there is likely hood of addition product groups integral to the system. The quoted rate shall be applicable for such product groups also. There may be variation or addition of PGMAs, description, weights etc., and any additional scope of work supplied under the above package shall be erected by the contractor and payment will be made as per the quoted / accepted rate in the respective category at the discretion of BHEL. Decision of BHEL Engineer shall be final and binding to the contractor in this regard.</td></tr></table>	Note to weight schedule:		3	Besides PG / PGMA indicated in the weight schedule, there is likely hood of addition product groups integral to the system. The quoted rate shall be applicable for such product groups also. There may be variation or addition of PGMAs, description, weights etc., and any additional scope of work supplied under the above package shall be erected by the contractor and payment will be made as per the quoted / accepted rate in the respective category at the discretion of BHEL. Decision of BHEL Engineer shall be final and binding to the contractor in this regard.	TCC : Chapter-IX : TCC Clause 9.0 <table><tr><th colspan="2">Note to weight schedule:</th></tr><tr><td>3</td><td>Besides PG / PGMA indicated in the weight schedule, there is likely hood of addition product groups integral to the system. The quoted rate shall be applicable for such product groups also. There may be variation or addition of PGMAs, description, weights, <u>specification</u> etc., and any additional scope of work supplied under the above package shall be erected by the contractor and payment will be made as per the quoted / accepted rate in the respective category at the discretion of BHEL. Decision of BHEL Engineer shall be final and binding to the contractor in this regard.</td></tr></table>	Note to weight schedule:		3	Besides PG / PGMA indicated in the weight schedule, there is likely hood of addition product groups integral to the system. The quoted rate shall be applicable for such product groups also. There may be variation or addition of PGMAs, description, weights, <u>specification</u> etc., and any additional scope of work supplied under the above package shall be erected by the contractor and payment will be made as per the quoted / accepted rate in the respective category at the discretion of BHEL. Decision of BHEL Engineer shall be final and binding to the contractor in this regard.
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Note to weight schedule:											
3	Besides PG / PGMA indicated in the weight schedule, there is likely hood of addition product groups integral to the system. The quoted rate shall be applicable for such product groups also. There may be variation or addition of PGMAs, description, weights, <u>specification</u> etc., and any additional scope of work supplied under the above package shall be erected by the contractor and payment will be made as per the quoted / accepted rate in the respective category at the discretion of BHEL. Decision of BHEL Engineer shall be final and binding to the contractor in this regard.										
2.	Technical Specifications of the Contract (TCC), Chapter-IX, Clause 9.0 –	TCC : Chapter-IX : TCC Clause 9.0 <table><tr><th colspan="2">Note to weight schedule:</th></tr><tr><td>5</td><td>Rate Schedule Identified are indicative only and are based on envisaged material specification. Payment shall be made on the basis of material specification of</td></tr></table>	Note to weight schedule:		5	Rate Schedule Identified are indicative only and are based on envisaged material specification. Payment shall be made on the basis of material specification of	TCC : Chapter-IX : TCC Clause 9.0 <table><tr><th colspan="2">Note to weight schedule:</th></tr><tr><td>5</td><td>-Deleted-</td></tr></table>	Note to weight schedule:		5	-Deleted-
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	Note to Weight Schedule, Sl. No. 5	actual material received and erected at site irrespective of PGMA allocation in the weight schedule. BHEL's decision in this regard shall be final.	

B) The following Additional Document is added as mentioned below and attached along with this corrigendum:

SL. NO.	Document/ Reference Clause	Existing Clause	New Clause
1.	New Annexure added as Annexure-15 in Chapter- XXV: Technical Annexure, of TCC	-	Annexure-15 - EWS Power Cycle Piping

Note:

- 1) All other terms and conditions against this NIT shall remain unchanged.**
- 2) This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).**

**for BHARAT HEAVY ELECTRICALS LTD
Manager/ SCT- CPC**



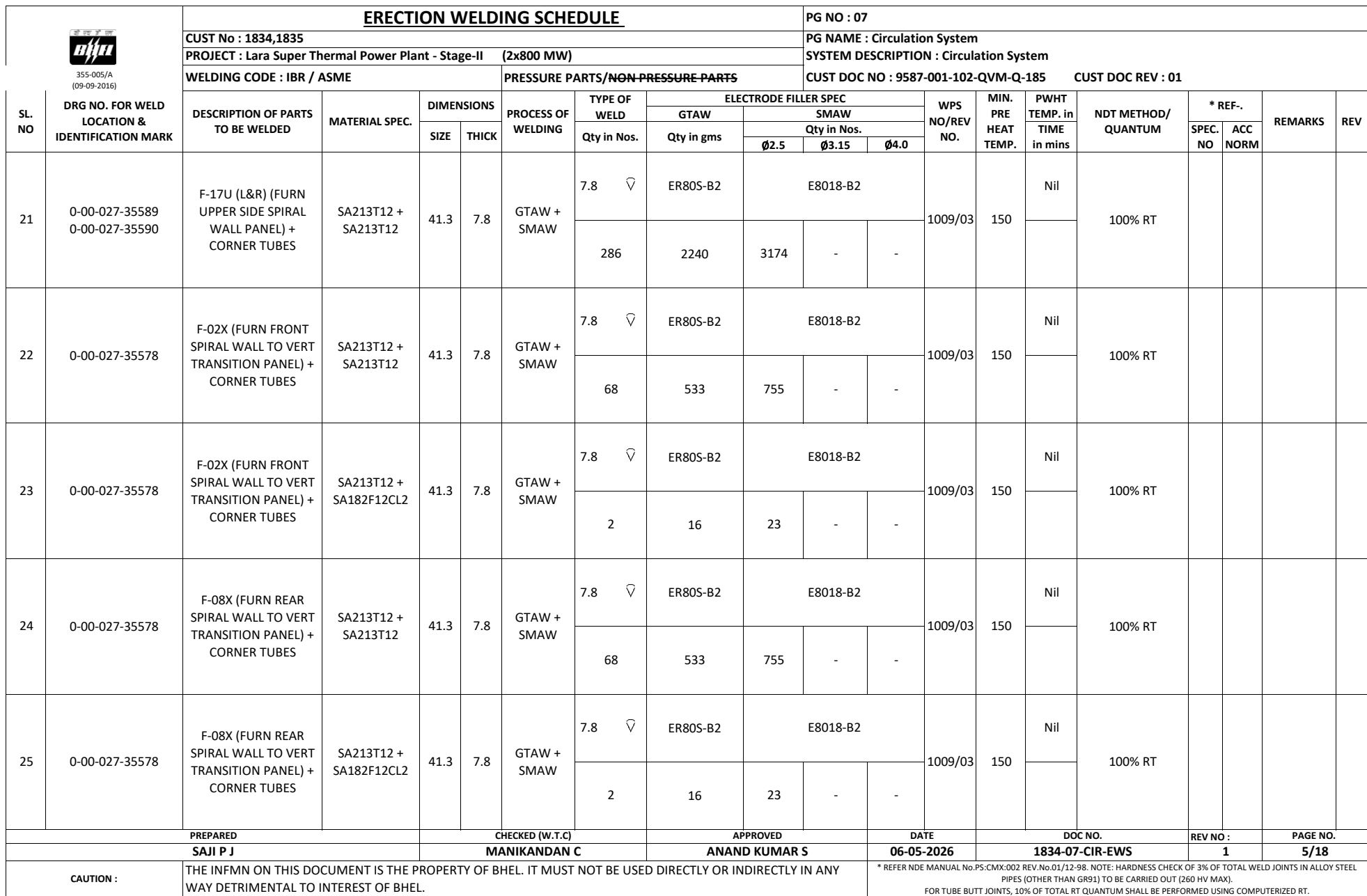
 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 07						
			CUST No : 1834,1835										PG NAME : Circulation System						
			PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System						
			WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
6	0-00-027-35556 0-00-027-35591	F-08TI (FURN REAR SPIRAL INLET TERM TUBES) + F-08L (FURN LOWER REAR SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							258	2021	2863	-	-								
7	0-00-027-35556 0-00-027-35591	F-02TI (FURN LOWER FRONT SPIRAL INLET TERM TUBES) + F-08L (FURN LOWER REAR SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							3	24	34	-	-								
8	0-00-027-35556 0-00-027-35591	F-08TI (FURN REAR SPIRAL INLET TERM TUBES) + F-02L (FURN LOWER FRONT SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							3	24	34	-	-								
9	0-00-027-35556 0-00-027-35599 0-00-027-35600	F-02TI (FURN LOWER FRONT SPIRAL INLET TERM TUBES) + F-17L (L&R) (FURN LOWER SIDE SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							10	79	111	-	-								
10	0-00-027-35556 0-00-027-35599 0-00-027-35600	F-08TI (FURN LOWER REAR SPIRAL INLET TERM TUBES) + F-17L (L&R) (FURN LOWER SIDE SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							10	79	111	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		2/18	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							

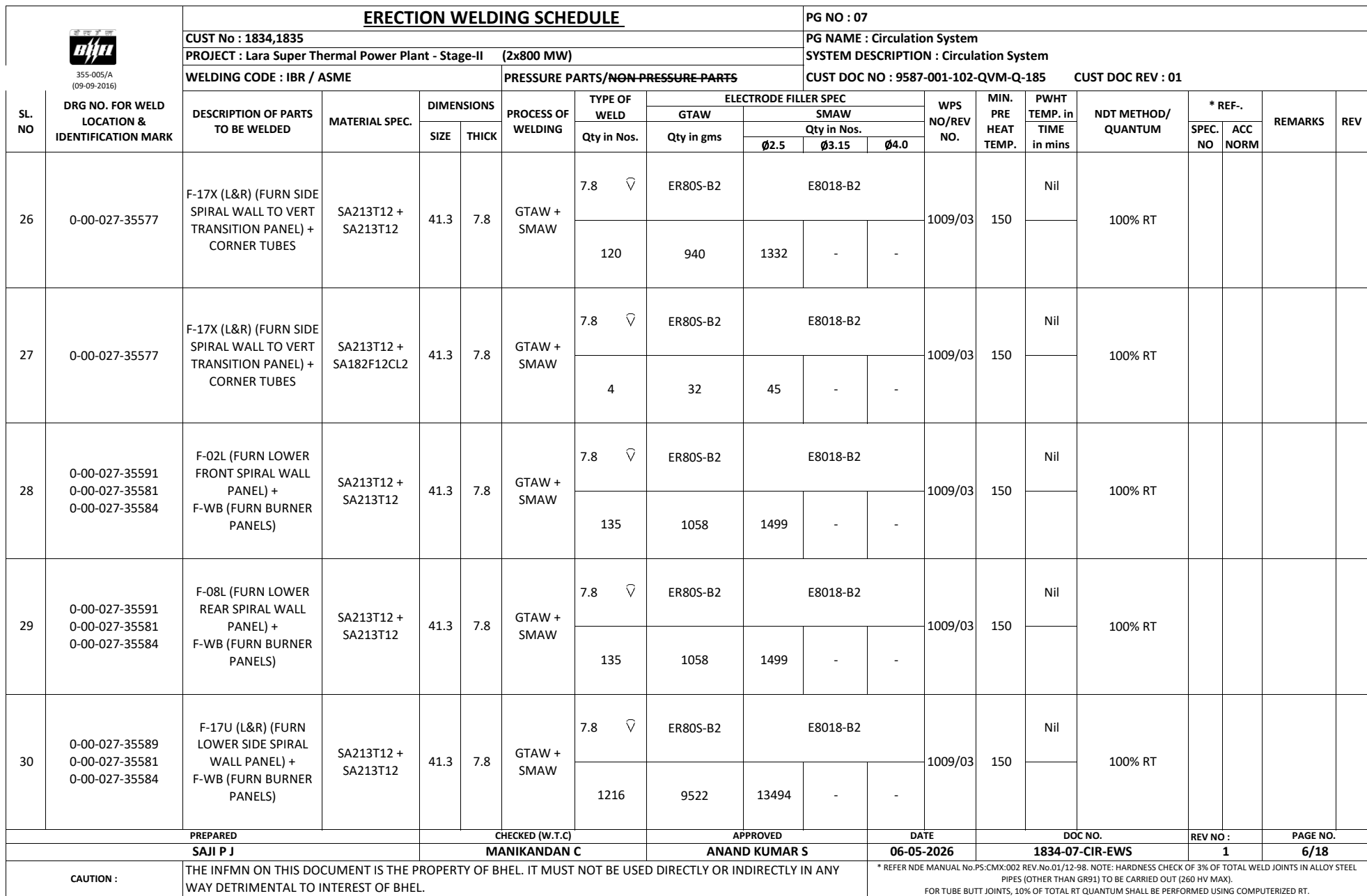


 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 07						
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WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 01							
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
11	0-00-027-35591	F-02L (FURN LOWER FRONT SPIRAL WALL PANEL) + F-02L (FURN LOWER FRONT SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							319	2498	3540	-	-								
12	0-00-027-35591	F-08L (FURN LOWER REAR SPIRAL WALL PANEL) + F-08L (FURN LOWER REAR SPIRAL WALL PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							319	2498	3540	-	-								
13	0-00-027-35591	F-02L (FURN LOWER FRONT SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	38.1	8	GTAW + SMAW	8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							128	860	1374	-	-								
14	0-00-027-35591	F-02L (FURN LOWER FRONT SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							258	2021	2863	-	-								
15	0-00-027-35591	F-08L (FURN LOWER REAR SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	38.1	8	GTAW + SMAW	8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							128	860	1374	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		3/18	
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				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
16	0-00-027-35591	F-08L (FURN LOWER REAR SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							258	2021	2863	-	-								
17	0-00-027-35587	F-02U (FURN UPPER FRONT SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							133	1042	1476	-	-								
18	0-00-027-35588	F-08U (FURN UPPER REAR SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							133	1042	1476	-	-								
19	0-00-027-35599 0-00-027-35600	F-17L (L&R) (FURN LOWER SIDE SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	38.1	8	GTAW + SMAW	8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							516	3464	5536	-	-								
20	0-00-027-35599 0-00-027-35600	F-17L (L&R) (FURN LOWER SIDE SPIRAL WALL PANEL) + CORNER TUBES	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							256	2005	2841	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
SAJI P J				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-07-CIR-EWS		1		4/18		
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				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
31	0-00-027-35587 0-00-027-35581 0-00-027-35584	F-02U (FURN UPPER FRONT SPIRAL WALL PANEL) + F-WB (FURN BURNER PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							598	4683	6636	-	-								
32	0-00-027-35588 0-00-027-35581 0-00-027-35584	F-08U (FURN UPPER REAR SPIRAL WALL PANEL) + F-WB (FURN BURNER PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							598	4683	6636	-	-								
33	0-00-027-35599 0-00-027-35581 0-00-027-35584	F-17L (L&R) (FURN LOWER SIDE SPIRAL WALL PANEL) + F-WB (FURN BURNER PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							250	1958	2775	-	-								
34	0-00-027-35578	F-02U (FURN UPPER FRONT SPIRAL WALL PANEL) + F-02X (FURN FRONT SPIRAL WALL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							124	971	1376	-	-								
35	0-00-027-35578	F-08U (FURN UPPER REAR SPIRAL WALL PANEL) + F-08X (FURN REAR SPIRAL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							124	971	1376	-	-								
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				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
							Qty in gms	Ø2.5	Ø3.15	Ø4.0					SPEC. NO	ACC NORM			
36	0-00-027-35577	F-17U (L&R) (FURN UPPER SIDE SPIRAL WALL PANEL) + F-17X (L&R) (FURN SIDE SPIRAL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							218	1708	2420	-	-								
37	0-00-027-35587	F-02U (FURN UPPER FRONT SPIRAL WALL PANEL) + F-OFA (FURN SOFA PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							485	3798	5382	-	-								
38	0-00-027-35588	F-08U (FURN UPPER REAR SPIRAL WALL PANEL) + F-OFA (FURN SOFA PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							485	3798	5382	-	-								
39	0-00-027-35577	F-17U (L&R) (FURN UPPER SIDE SPIRAL WALL PANEL) + F-OFA (FURN SOFA PANELS)	SA213T12 + SA213T12	41.3	7.8	GTAW + SMAW	7.8 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							932	7299	10343	-	-								
40	0-00-027-35577	F-17X (L&R) (FURN SIDE SPIRAL TO VERT TRANSITION PANEL) + F-17TO (L&R) (FURN SIDE SPIRAL OUTLET TERM TUBES)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							262	1904	2264	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
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		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in gms	Qty in Nos.									
								Ø2.5	Ø3.15	Ø4.0					SPEC. NO	ACC NORM			
41	0-00-027-35578	F-02X (FURN FRONT SPIRAL TO VERT TRANSITION PANEL) + F-02TO (FURN FRONT SPIRAL OUTLET TERM TUBES)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							140	1018	1210	-	-								
42	0-00-027-35578	F-08X (FURN REAR SPIRAL TO VERT TRANSITION PANEL) + F-08TO (FURN REAR SPIRAL OUTLET TERM TUBES)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							140	1018	1210	-	-								
43	0-00-027-35577	F-17TO (L&R) (FURN SIDE SPIRAL OUTLET TERM TUBES) + F-18 (L&R) (FURN INTERM SIDE HDRS)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							262	1904	2264	-	-								
44	0-00-027-35578	F-02TO (FURN FRONT SPIRAL OUTLET TERM TUBES) + F-03 (FURN INTERM FRONT HDR)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							140	1018	1210	-	-								
45	0-00-027-35578	F-08TO (FURN REAR SPIRAL OUTLET TERM TUBES) + F-09 (FURN INTERM REAR HDR)	SA213T12 + SA213T12	38.1	7.11	GTAW + SMAW	7.11 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							140	1018	1210	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		9/18	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)		<u>ERECTION WELDING SCHEDULE</u>										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
							Qty in Nos.		Qty in gms	Qty in Nos.					Ø2.5	Ø3.15			Ø4.0
46	0-00-027-35577	F-18 (L&R) (FURN INTERM SIDE HDRS) + F-19TI (L&R) (FURN SIDE VERT INLET TERM TUBES)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							786	5305	3873	-	-								
47	0-00-027-35578	F-03 (FURN INTERM FRONT HDR) + F-04TI (FURN FRONT VERTICAL INLET TERM TUBES)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							420	2835	2070	-	-								
48	0-00-027-35578	F-09 (FURN INTERM REAR HDR) + F-10TI (FURN REAR VERT INET TERM TUBES)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							420	2835	2070	-	-								
49	0-00-027-35578	F-03 (FURN FRONT INTERM HDR INSPECTION NOZZLE) + FLAT END COVER	SA182F12CL2 + SA182F12CL2	168.3	39.7	GTAW + SMAW	34.74 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							2	91	25	40	92			100					
50	0-00-027-35578	F-09 (FURN REAR INTERM HDR INSPECTION NOZZLE) + FLAT END COVER	SA182F12CL2 + SA182F12CL2	168.3	39.7	GTAW + SMAW	34.74 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							2	91	25	40	92			100					
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		10/18	
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 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
51	0-00-027-35577	F-18 (FURN INTERM HDR INSPECTION NOZZLE) + FLAT END COVER	SA182F12CL2 + SA182F12CL2	168.3	39.7	GTAW + SMAW	34.74 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
4	182	49	80	184															
52	0-00-027-35577	F-19TI (L&R) (FURN SIDE VERT INLET TERM TUBES) + F-17X (L&R) (FURN SIDE SPIRAL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
786	5305	3873	-	-															
53	0-00-027-35578	F-04TI (FURN FRONT VERTICAL INLET TERM TUBES) + F-02X (FURN FRONT SPIRAL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
420	2835	2070	-	-															
54	0-00-027-35578	F-10TI (FURN REAR VERT INET TERM TUBES) + F-08X (FURN REAR SPIRAL TO VERT TRANSITION PANEL)	SA213T12 + SA213T12	33.4	5.59	GTAW + SMAW	5.59 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
420	2835	2070	-	-															
55	0-00-027-35586	F-02X (FURN FRONT SPIRAL TO VERT TRANSITION PANEL) + F-04L (FURN LOWER FRONT VERT WALL PANEL)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
420	2786	4642	-	-															
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
SAJI P J				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-07-CIR-EWS		1		11/18		
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 07						
CUST No : 1834,1835													PG NAME : Circulation System						
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)													SYSTEM DESCRIPTION : Circulation System						
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
56	0-00-027-35586	F-04L (FURN INTER FRONT VERT WALL PANEL) + F-04U (FURN UPPER FRONT VERT WALL PANEL)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							420	2786	4642	-	-								
57	0-00-027-35586	F-04U (FURN UPPER FRONT VERT WALL PANEL) + F-05 (FURN UPPER FRONT OUTLET HDR)	SA213T23 + SA213T22	38.1	8.13	GTAW + SMAW	8.13 ▽	ER90S-B3	E9018-B3			1053/04	200	745 ± 15	20% RT + 80% PAUT			100% HC, 260HV (MAX)	
							420	5250	4642	-	-			60					
58	0-00-027-35586	F-08X (FURN REAR SPIRAL TO VERT TRANSITION PANEL) + F-11 (FURN REAR ARCH PANEL)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							420	2786	4642	-	-								
59	0-00-027-35586 0-00-027-35551	F-11 (FURN REAR ARCH PANEL) + F-12 (FURN SCREEN TUBES)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							280	1857	3095	-	-								
60	0-00-027-35586 0-00-027-35551	F-11 (FURN REAR ARCH PANEL) + F-13 (FURN HANGER TUBES)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							140	929	1548	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
SAJI P J				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-07-CIR-EWS		1		12/18		
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 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185			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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
61	0-00-027-35586 0-00-027-35551	F-12 (FURN SCREEN TUBES) + F-14 (FURN UPPER REAR OUTLET HDR)	SA213T12 + SA213T12	38.1	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							280	1857	3095	-	-								
62	0-00-027-35586 0-00-027-35551	F-13 (FURN HANGER TUBES) + F-14 (FURN UPPER REAR OUTLET HDR)	SA213T22 + SA213T22	63.5	12.7	GTAW + SMAW	12.7 ▽	ER90S-B3	E9018-B3			1084/01	200	740 ± 10	20% RT + 80% PAUT			100% HC, 260HV (MAX)	
							140	1636	1308	1152	-			60					
63	0-00-027-35586	F-17X (L&R) (FURN SIDE SPIRAL TO VERT TRANSITION PANEL) + F-19L (L&R) (FURN LOWER SIDE VERT WALL PANEL)	SA213T12 + SA213T12	38.1	9.1	GTAW + SMAW	9.1 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							786	4739	10720	-	-								
64	0-00-027-35586	F-19L (L&R) (FURN LOWER SIDE VERT WALL PANEL) + F-19U (L&R) (FURN UPPER SIDE VERT WALL PANEL)	SA213T12 + SA213T12	38.1	9.1	GTAW + SMAW	9.1 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							786	4739	10720	-	-								
65	0-00-027-35586	F-19U (L&R) (FURN UPPER SIDE VERT WALL PANEL) + F-19U LT (LOOSE TUBES)	SA213T12 + SA213T12	38.1	9.1	GTAW + SMAW	9.1 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
							10	61	137	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		13/18	
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 07						
CUST No : 1834,1835													PG NAME : Circulation System						
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)													SYSTEM DESCRIPTION : Circulation System						
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
66	0-00-027-35586	F-19U (L&R) (FURN UPPER SIDE VERT WALL PANEL) + F-20 (L&R) (FURN UPPER SIDE OUTLET HDRS)	SA213T12 + SA213T12	38.1	9.1	GTAW + SMAW	9.1 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20% RT + 80% PAUT				
						786	4739	10720	-	-									
67	1-07-318-01322 1-07-318-01323 0-00-027-35570	F-05 (FURN UPPER FRONT OUTLET HDR) + F-06 (FRONT RISER PIPES)	SA182F12CL2 + SA335P12	219.1	40	GTAW + SMAW	35.00 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
						4	270	63	103	261			100						
68	1-07-318-01322 1-07-318-01323 0-00-027-35568	F-06 (FRONT RISER PIPES) + F-06 (FRONT RISER PIPES)	SA335P12 + SA335P12	219.1	40	GTAW + SMAW	35.00 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
						16	1077	252	412	1042			100						
69	1-07-318-01322 1-07-318-01323 0-00-027-35568	F-06 (FRONT RISER PIPES) + F-31 (SEPARATOR)	SA335P12 + SA182F22CL3	219.1	40	GTAW + SMAW	35.00 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
						4	270	63	103	261			100						
70	0-07-316-02253 0-07-316-02254 0-00-027-35568	F-14 (FURN UPPER REAR OUTLET HDR) + F-15 (REAR RISER PIPES)	SA182F12CL2 + SA335P12	219.1	40	GTAW + SMAW	35.00 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
						4	270	63	103	261			100						
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
SAJI P J				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-07-CIR-EWS		1		14/18		
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 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
76	0-07-102-02217 0-00-027-35568	F-31 (SEPARATOR) + F-32 (LINK TO SEPARATOR STORAGE TANK)	SA182F22CL3 + SA335P12	355.6	65	GTAW + SMAW	56.88 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
							4	432	102	168	1030			165					
77	0-07-102-02217 0-00-027-35568	F-32 (LINK TO SEPARATOR STORAGE TANK) + F-32 (LINK TO SEPARATOR STORAGE TANK)	SA335P12 + SA335P12	355.6	65	GTAW + SMAW	56.88 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							8	863	204	335	2059			165					
78	0-07-102-02217 0-00-027-35568	F-32 (LINK TO SEPARATOR STORAGE TANK) + F-33 (STORAGE TANK)	SA335P12 + SA182F22CL3	355.6	65	GTAW + SMAW	56.88 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
							4	432	102	168	1030			165					
79	0-07-110-02218 0-00-027-35568	F-33 (STORAGE TANK) + F-49 (FURN DOWNCOMER TO CONNECTING SPHERE)	SA182F22CL3 + SA335P12	406.4	65	GTAW + SMAW	56.88 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
							2	260	59	96	603			165					
80	0-07-110-02218 0-00-027-35568	F-49 (FURN DOWNCOMER TO CONNECTING SPHERE) + F-50 (FURN CONNECTING SPHERE)	SA335P12 + SA182F12CL2	406.4	65	GTAW + SMAW	56.88 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							2	260	59	96	603			165					
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
SAJI P J				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-07-CIR-EWS		1		16/18		
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.P5:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)		<u>ERECTION WELDING SCHEDULE</u>										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW						SPEC. NO	ACC NORM			
									Qty in Nos.										
									Ø2.5	Ø3.15									Ø4.0
81	1-07-217-01324 0-00-027-35568	F-33 (STORAGE TANK) + F-34 (SEPARATOR STORAGE TANK VENT LINK)	SA182F22CL3 + SA335P12	88.9	16	GTAW + SMAW	14.00 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
							2	58	13	21	4			60					
82	1-07-217-01324 0-00-027-35568	F-34 (SEPARATOR STORAGE TANK VENT LINK) + F-34 (SEPARATOR STORAGE TANK VENT LINK)	SA335P12 + SA234WP22CL1	88.9	16	GTAW + SMAW	14.00 ∇∇	ER80S-B2	E8018-B2			1012/04	150	680-720	100% RT 100% MPI/LPI			NDT after SR	01
							2	58	13	21	4			60					
83	1-07-217-01324 0-00-027-35568	F-34 (SEPARATOR STORAGE TANK VENT LINK) + S-01 (SH CONNECTING PIPE)	SA335P12 + SA182F12CL2	88.9	16	GTAW + SMAW	14.00 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							2	58	13	21	4			60					
84		GAMMA PLUG IN F-01 AND F-07	SA106GRC + SA105			SMAW	7 ∇	-	E7018			1101/01	100	Nil	100% LPI or MPI			FOR T- (25-75) MM	
							4	-	2	-	-								
85		GAMMA PLUG IN RISER LINKS	SA335P12 + SA182F22CL3			SMAW	7 ∇	-	E8018-B2			1102/01	200	Nil	100% LPI or MPI			FOR T- (25-75) MM	
							102	-	26	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
SAJI P J				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-07-CIR-EWS		1		17/18	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							

 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 07							
		CUST No : 1834,1835										PG NAME : Circulation System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Circulation System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
86		GAMMA PLUG IN F-49 LINKS	SA335P12 + SA182F22CL3			SMAW	7 	-	E8018-B2			1102/01	200	Nil	100% LPI or MPI			FOR T- (25-75) MM	
16	-	5	-	-															
PREPARED			CHECKED (W.T.C)			APPROVED			DATE			DOC NO.			REV NO :		PAGE NO.		
SAJI P J			MANIKANDAN C			ANAND KUMAR S			06-05-2026			1834-07-CIR-EWS			1		18/18		
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.P5:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 19						
			CUST No : 1834,1835										PG NAME : Economiser System						
			PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Economiser System						
			WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 00						
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
6	2-19-850-05101 0-00-027-35571	WATER COOLED HGR I/L HDR LINK + WATER COOLED HGR I/L HDR (E-04.01 + E.05A)	SA106GRC + SA106GRC	219.1	36	GTAW + SMAW	31.50 ∇∇	ER70S-A1	E7018-1			1004/04	100	610 ± 15	100% RT 100% MPI/LPI				
						1	71	16	26	55		90							
7	0-00-027-35546	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	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
						940	8690	9449	-	-									
8	0-00-027-35546	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	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
						940	8690	9449	-	-									
9	0-00-027-35546	ECO COIL LWR ASSY +ECO COIL INTER ASSY (E-06L + E-06I)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1 ∇	ER70S-A1	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
						940	8690	9449	-	-									
10	0-00-027-35546	ECO COIL INTER ASSY +ECO COIL UPPER ASSY (E-06I + E-6U)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1 ∇	ER70S-A1	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
						940	8690	9449	-	-									
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				NIRMAL RAJ N				09-02-2026		1834-19-ECO-EWS		0		2/8	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 19					
CUST No : 1834,1835										PG NAME : Economiser System								
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Economiser System								
WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 00								
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.									
									Ø2.5	Ø3.15					Ø4.0			
11	0-00-027-35546 0-00-027-35606	ECO COIL UPPER ASSY +ECO O/L TERM TUBES (E-06U + E-06TO)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1 ▽ ER70S-A1	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
							940	8690	9449	-	-							
12	0-00-027-35546 0-00-027-35606	ECO O/L TERM TUBES +ECO JN. HDR NIPPLE (E-06TO + E-07 NIPPLE)	SA210GRC + SA210GRC	44.45	7.1	GTAW + SMAW	7.1 ▽ ER70S-A1	E7018-1			1003/04	20	Nil	20%RT + 80% PAUT				
							940	8690	9449	-	-							
13	0-00-027-35546 0-00-027-35606	WATER COOLED HGR I/L HDR NIPPLE + WATER COOLED HGR I/L TERM TUBES (E-05A NIPPLE + E-06ATI)	SA210GRC + SA210GRC	44.45	13.49	GTAW + SMAW	13.49 ▽ ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT				
							472	2489	2414	3277	-		35					
14	0-00-027-35546 0-00-027-35606	WATER COOLED HGR I/L TERM TUBES + WATER COOLED HGR TUBES (E-06ATI + E-06A)	SA210GRC + SA210GRC	44.45	13.49	GTAW + SMAW	13.49 ▽ ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT				
							472	2489	2414	3277	-		35					
15	0-00-027-35546 0-00-027-35605	WATER COOLED HGR TUBES + ECO COIL LWR ASSY HGR TUBES (E-06A + E-06L HGR)	SA210GRC + SA210GRC	44.45	13.49	GTAW + SMAW	13.49 ▽ ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT				
							472	2489	2414	3277	-		35					
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				NIRMAL RAJ N			09-02-2026		1834-19-ECO-EWS		0		3/8	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.						



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 19									
CUST No : 1834,1835										PG NAME : Economiser System												
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Economiser System												
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 00										
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV				
				SIZE	THICK			GTAW	SMAW													
									Qty in Nos.													
									Ø2.5	Ø3.15					Ø4.0							
21	0-00-027-35544	ECO LWR HGR TUBE +ECO HGR TUBE (LTRH LWR ASSY) (E-08L + R-04L HANGER)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
22	0-00-027-35544	ECO HGR TUBE (LTRH LWR ASSY)+ECO HGR TUBE (LTRH LWR INTER ASSY) (R-04L HGR + R-04LI HGR)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
23	0-00-027-35544	ECO HGR TUBE (LTRH LWR INTER ASSY)+ECO HGR TUBE (LTRH INTER ASSY) (R-04LI HGR + R-04I HGR)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
24	0-00-027-35544	ECO HGR TUBE (LTRH INTER ASSY)+ECO HGR TUBE (LTRH UPR INTER ASSY) (R-04I HANGER + R-04UI HANGER)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
25	0-00-027-35544	ECO HGR TUBE (LTRH UPR INTER ASSY)+ECO HGR TUBE (LTRH UPR ASSY) (R-04UI HANGER + R-04U HANGER)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.				
RUDRABHATLA SAIKUMAR				MANIKANDAN C				NIRMAL RAJ N				09-02-2026		1834-19-ECO-EWS		0		5/8				
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.										



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 19									
CUST No : 1834,1835										PG NAME : Economiser System												
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Economiser System												
WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 00												
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV				
				SIZE	THICK			GTAW	SMAW													
									Qty in Nos.													
									Ø2.5	Ø3.15					Ø4.0							
26	0-00-027-35544	ECO HGR TUBE (LTRH UPR ASSY)+ECO UPR HGR TUBE (R-04U HGR + E-08U)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
27	0-00-027-35544 0-00-027-35574	ECO UPR HGR TUBE +ECO HGR O/L TERM TUBE (E-08U + E-08TO)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
28	0-00-027-35544 0-00-027-35574	ECO HGR O/L TERM TUBE +ECO O/L HDR NIPPLE (E-08TO + E-09 NIPP)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
476	6087	4792	5498	-	40																	
29	0-00-027-35580	ECO JN. HDR NIPPLE + ECO HGR TUBE (LTRH HDR SUPPT) (E-07 NIPP + E-08X)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
40	512	403	462	-	40																	
30	0-00-027-35580	ECO HGR TUBE (LTRH HDR SUPPT)+ECO HGR TUBE (LTRH HDR SUPPT) (E-08X + E-08X)	SA210GRC + SA210GRC	69.85	14.1	GTAW + SMAW	14.1 ▽	ER70S-A1	E7018-1			1004/04	Nil	610 ± 15	20%RT + 80% PAUT							
160	2046	1611	1848	-	40																	
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.					
RUDRABHATLA SAIKUMAR				MANIKANDAN C				NIRMAL RAJ N			09-02-2026		1834-19-ECO-EWS		0		6/8					
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 19						
CUST No : 1834,1835										PG NAME : Economiser System									
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Economiser System									
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 CUST DOC REV : 00								
SL. NO	DRG NO. FOR WELD LOCATION & IDENTIFICATION MARK	DESCRIPTION OF PARTS TO BE WELDED	MATERIAL SPEC.	DIMENSIONS		PROCESS OF WELDING	TYPE OF WELD Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
36	0-19-853-02646 0-00-027-35571	ECO WW I/L LINK+ECO WW I/L LINK (EF-03 + EF-03)	SA106GRC + SA106GRC	508	70	GTAW + SMAW	61.25 ∇∇	ER70S-A1	E7018-1			1004/04	100	610 ± 15	100% (ISRT+UT) 100% MPI/LPI				
4	682	146	239	1741						175									
37	0-19-853-02646 0-00-027-35571	ECO WW I/L LINK+FURN SIDE I/L HDRS (EF-03 + F-16 L&R)	SA106GRC + SA234WPC	508	70	GTAW + SMAW	61.25 ∇∇	ER70S-A1	E7018-1			1004/04	100	610 ± 15	100% (ISRT+UT) 100% MPI/LPI				
2	341	73	120	871						175									
38	0-19-753-02639 0-19-763-02643 0-19-783-02666 0-19-793-02668	ECO INTER HDRS:INSP. NOZZLE + FLAT END COVER	SA105 + SA105	168.3	45.4	GTAW + SMAW	39.72 ∇∇	ER70S-A1	E7018-1			1004/04	100	610 ± 15	100% RT 100% MPI/LPI				
8	328	97	159	451						115									
39		GAMMA PLUG	SA105 + SA106GRC			SMAW	7 ▴	-	E7018			1101/01	150	Nil	100% LPI or MPI			FOR T >75 MM	
23	-	6	-	-															
40		GAMMA PLUG	SA105 + SA106GRC			SMAW	7 ▴	-	E7018			1101/01	100	Nil	100% LPI or MPI			FOR T- (25-75) MM	
43	-	11	-	-															
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
RUDRABHATLA SAIKUMAR				MANIKANDAN C				NIRMAL RAJ N			09-02-2026		1834-19-ECO-EWS		0		8/8		
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							

 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 17							
		CUST No : 1834,1835										PG NAME : Reheater System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Reheater System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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	SMAW						SPEC. NO	ACC NORM REF.			
							Qty in Nos.		Qty in gms	Qty in Nos.			TIME in mins						
								Ø2.5	Ø3.15	Ø4.0									
1	0-00-027-35822	LTRH I/L HDR + SPOOL PIPE (R-03 HDR + R-03 SPOOL)	SA335P12 + SA335P12	558.8	35	GTAW + SMAW	30.62 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
							2	439	81	132	300			90					
2	0-00-027-35822 0-00-027-35557	LTRH I/L HDR NIPPLE + LTRH I/L TERM TUBE (R-03 NIPPLE + R-04TI)	SA213T11 + SA213T11	69.85	5.08	GTAW + SMAW	5.08 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							952	17510	8317	-	-								
3	0-00-027-35557 0-00-027-35544	LTRH I/L TERM TUBE +LTRH LWR ASSY (R-04TI + R-04L)	SA213T11 + SA213T11	69.85	5.08	GTAW + SMAW	5.08 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							952	17510	8317	-	-								
4	0-00-027-35557 0-00-027-35544	LTRH LWR ASSY +LTRH LWR INTER ASSY (R-04L + R-04LI)	SA213T11 + SA213T11	69.85	5.08	GTAW + SMAW	5.08 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	100% RT				
							952	17510	8317	-	-								
5	0-00-027-35557 0-00-027-35544	LTRH LWR INTER ASSY+LTRH INTER ASSY (R-04LI + R-04I)	SA213T11 + SA213T22	69.85	5.08	GTAW + SMAW	5.08 ∇	ER80S-B2	E8018-B2			1011/01	150	Nil	100% RT				
							952	17510	8317	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-17-RH-EWS		1		1/6		
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.						* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.											



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 17						
CUST No : 1834,1835										PG NAME : Reheater System									
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Reheater System									
WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
6	0-00-027-35557 0-00-027-35544	LTRH INTER ASSY +LTRH UPR INTER ASSY (R-04I + R-04UI)	SA213T22 + SA213T22	69.85	5.08	GTAW + SMAW	5.08 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	100% RT				
							952	17510	8317	-	-								
7	0-00-027-35557 0-00-027-35544	LTRH UPR INTER ASSY+LTRH UPR ASSY (R-04UI + R-04U)	SA213T22 + SA213T22	69.85	5.08	GTAW + SMAW	5.08 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	100% RT				
							952	17510	8317	-	-								
8	0-00-027-35573 0-00-027-35544	LTRH UPR ASSY + LTRH PENDANT LOOSE TUBE (R-04U + R-07B-LT)	SA213 UNS S30432 + SA213 UNS S30432	63.5	4	GTAW	4 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							952	71350	-	-	-								
9	0-00-027-35573 0-00-027-35544	LTRH PENDANT LOOSE TUBE+ LTRH PENDANT ASSY (R-07B-LT + R-07)	SA213 UNS S30432 + SA213 UNS S30432	63.5	4	GTAW	4 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							952	71350	-	-	-								
10	0-00-027-35573 0-00-027-35544	LTRH PENDANT ASSY +LTRH O/L TERM TUBE (R-07 + R-07TO)	SA213 UNS S30432 + SA213 UNS S30432	63.5	4	GTAW	4 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							952	71350	-	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-17-RH-EWS		1		2/6	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 17						
			CUST No : 1834,1835										PG NAME : Reheater System						
			PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Reheater System						
			WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
11	0-00-027-35573 0-00-027-35544	LTRH O/L TERM TUBE +LTRH O/L HDR NIPPLE (R-07TO (1, 8) + R-08 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	50.8	4	GTAW	4 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
						238	14270	-	-	-									
12	0-00-027-35573 0-00-027-35544	LTRH O/L TERM TUBE +LTRH O/L HDR NIPPLE (R-07TO (2-7) + R-08 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	44.45	4.2	GTAW	4.2 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
						714	40491	-	-	-									
13	0-00-027-35548 1-17-174-00671	LTRH O/L HDR+ LINK TO RH DESH (R-08 + R-09)	SA335P91 + SA234WP91	813	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB	
						2	654	195	260	791			100						
14	0-00-027-35548 1-17-174-00671	LINK TO RH DESH+ LINK TO RH DESH (R-09 + R-09)	SA335P91 + SA234WP91	813	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB	
						2	654	195	260	791			100						
15	0-00-027-35548 0-17-900-00729	LINK TO RH DESH+ RH DESH (R-09 + R-10)	SA335P91 + SA335P91	813	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB	
						2	654	195	260	791			100						
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-17-RH-EWS		1		3/6	
CAUTION :		THE INFMM ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							

 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE CUST No : 1834,1835 PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW) WELDING CODE : IBR / ASME										PG NO : 17 PG NAME : Reheater System SYSTEM DESCRIPTION : Reheater System CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV				
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.													
									Ø2.5	Ø3.15					Ø4.0							
16	0-00-027-35548 0-17-900-00729 0-17-174-00801	RH DESH+ LINK TO FINISH RH (R-10 + R-11)	SA335P91 + SA335P91	813	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB					
							2	654	195	260	791		100									
17	0-00-027-35548 0-17-174-00801	LINK TO FINISH RH+ LINK TO FINISH RH (R-11 + R-11)	SA335P91 + SA234WP91	813	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB					
							7	2286	680	908	2767		100									
18	0-00-027-35547 0-17-174-00801	LINK TO FINISH RH+ FINISH RH I/L HDR (R-11 + R-12)	SA234WP91 + SA335P91	609.6	40	GTAW + SMAW	35.00 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB					
							2	476	146	195	583		100									
19	0-00-027-35559 0-00-027-35560	FINISH RH I/L HDR NIPP+ FINISH RH I/L TERM TUBES (R-12 NIPPLE + R-13TI (1))	SA213T22 + SA213T22	76.2	6.6	GTAW + SMAW	6.6 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	20%RT + 80% PAUT							
							51	991	770	-	-											
20	0-00-027-35559 0-00-027-35560	FINISH RH I/L HDR NIPP+ FINISH RH I/L TERM TUBES (R-12 NIPPLE + R-13TI (2-3))	SA213T22 + SA213T22	63.5	5.59	GTAW + SMAW	5.59 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	100% RT							
							102	1643	956	-	-											
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.					
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-17-RH-EWS		1		4/6					
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.										



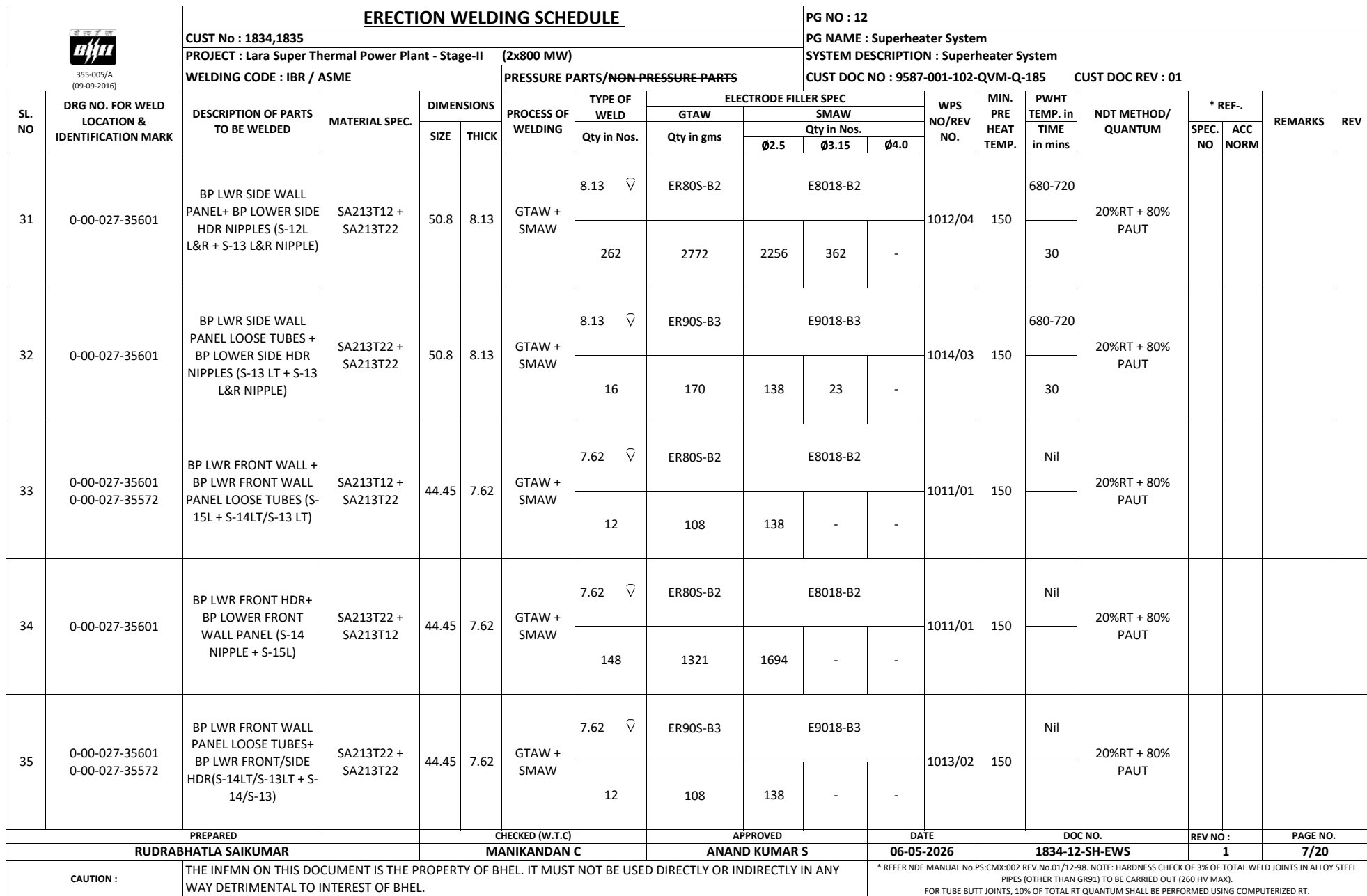
 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 17						
CUST No : 1834,1835										PG NAME : Reheater System									
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Reheater System									
WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
21	0-00-027-35559 0-00-027-35560	FIN. RH I/L HDR NIPP+ FINISH RH I/L TERM TUBES (R-12 NIPPLE + R-13Ti (4-5))	SA213T22 + SA213T22	50.8	4.5	GTAW + SMAW	4.5 ▽	ER90S-B3	E9018-B3			1013/02	150	Nil	100% RT				
							102	1310	529	-	-								
22	0-00-027-35559 0-00-027-35560	FIN RH I/L HDR NIPP+ FINISH RH I/L TERM TUBES (R-12 NIPPLE + R-13Ti (6-14))	SA213T22 + SA213T22	44.5	4.5	GTAW + SMAW	4.5 ▽	ER90S-B3	E9018-B3			1013/02	150	Nil	100% RT				
							459	4992	2085	-	-								
23	0-00-027-35559 0-00-027-35560	FINISH RH I/L TERM TUBES + FINISH RH ASSY (R-13Ti (1) + R-13(1))	SA213 UNS S30432 + SA213 UNS S30432	76.2	5.08	GTAW	5.08 ▽	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							51	6800	-	-	-								
24	0-00-027-35559 0-00-027-35560	FINISH RH I/L TERM TUBES + FINISH RH ASSY (R-13Ti (2-14) + R-13(2-14))	SA213 UNS S30432 + SA213 UNS S30432	63.5	4	GTAW	4 ▽	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							663	49691	-	-	-								
25	0-00-027-35559 0-00-027-35560	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 / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							51	6800	-	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-17-RH-EWS		1		5/6	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							



 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 17						
CUST No : 1834,1835										PG NAME : Reheater System									
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Reheater System									
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Qty in gms	Ø2.5					Ø3.15	Ø4.0			
26	0-00-027-35559 0-00-027-35560	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	GTAW	4 ▽	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							663	49691	-	-	-								
27	0-00-027-35559 0-00-027-35560	FIN RH O/L TERM TUBE+FINISH RH O/L HDR NIPPLE (R-13TO (1-14) + R-14 NIP)	SA213 UNS S30432 + SA213 UNS S30432	57.15	4.2	GTAW	4.2 ▽	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT				
							714	52060	-	-	-								
28		GAMMA PLUG	SA335P12 + SA182F22CL3			SMAW	7 ▴	-	E8018-B2			1102/01	200	Nil	100% LPI or MPI			FOR T- (25-75) MM	
							2	-	1	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-17-RH-EWS		1		6/6	
CAUTION :		THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO INTEREST OF BHEL.										* REFER NDE MANUAL No.PS:CMX:002 REV.No.01/12-98. NOTE: HARDNESS CHECK OF 3% OF TOTAL WELD JOINTS IN ALLOY STEEL PIPES (OTHER THAN GR91) TO BE CARRIED OUT (260 HV MAX). FOR TUBE BUTT JOINTS, 10% OF TOTAL RT QUANTUM SHALL BE PERFORMED USING COMPUTERIZED RT.							

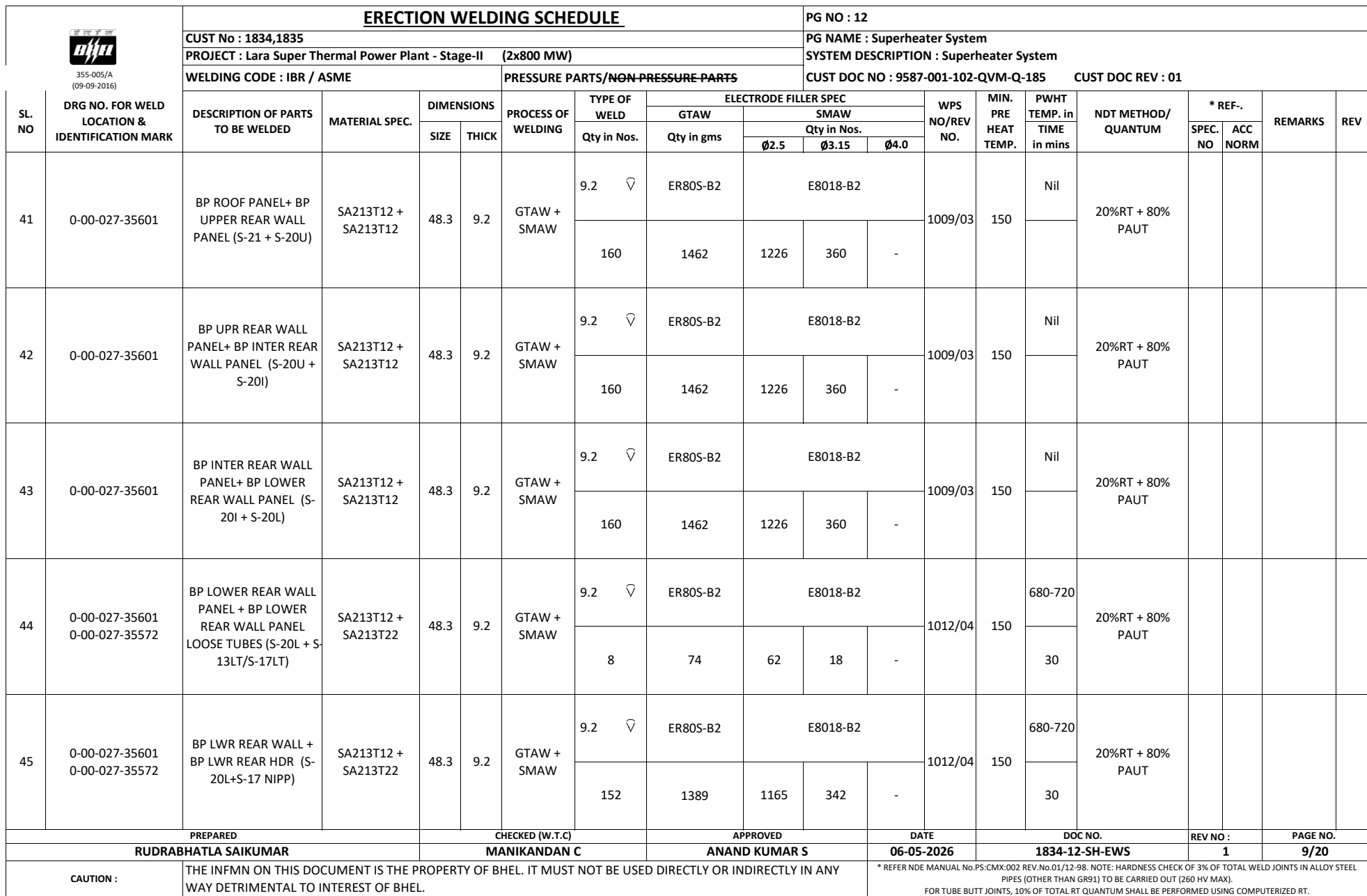


 355-005/A (09-09-2016)		ERECTION WELDING SCHEDULE										PG NO : 12							
		CUST No : 1834,1835										PG NAME : Superheater System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Superheater System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON -PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW						SPEC. NO	ACC NORM			
									Qty in Nos.										
									Ø2.5	Ø3.15									Ø4.0
26	0-00-027-35601	BP UPR SIDE I/L HDR +BP UPR SIDE WALL PANEL (S-11 NIPPLE + S-12U L&R)	SA213T12 + SA213T12	50.8	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							278	2941	2394	384	-								
27	0-00-027-35601	BP UPR SIDE WALL PANEL+ BP INTER SIDE WALL PANEL (S-12U L&R + S-12I L&R)	SA213T12 + SA213T12	50.8	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							278	2941	2394	384	-								
28	0-00-027-35601	BP INTER SIDE WALL PANEL+ BP LWR SIDE WALL PANEL (S-12I L&R + S-12L L&R)	SA213T12 + SA213T12	50.8	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							278	2941	2394	384	-								
29	0-00-027-35601	LTRH OPENING LOOSE TUBES L&R	SA213T12 + SA213T12	50.8	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							40	424	345	56	-								
30	0-00-027-35601	BP LWR SIDE WALL PANEL + BP LWR SIDE WALL PANEL LOOSE TUBES (S-12L L&R + S-13 LT)	SA213T12 + SA213T22	50.8	8.13	GTAW + SMAW	8.13 ▽	ER80S-B2	E8018-B2			1012/04	150	680-720	20%RT + 80% PAUT				
							16	170	138	23	-			30					
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-12-SH-EWS		1		6/20		
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12						
			CUST No : 1834,1835										PG NAME : Superheater System						
			PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Superheater System						
			WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
							Qty in gms	Ø2.5	Ø3.15	Ø4.0					SPEC. NO	ACC NORM			
36	0-00-027-35601	BP LWR FRONT WALL PANEL+ BP UPPER FRONT WALL PANEL (S-15L + S-15U)	SA213T12 + SA213T12	44.45	7.62	GTAW + SMAW	7.62 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							160	1428	1831	-	-								
37	0-00-027-35601	BP UPR FRONT WALL PANEL+BP UPR FRONT WALL PANEL (S-15U + S-16 PANEL)	SA213T12 + SA213T12	44.45	7.62	GTAW + SMAW	7.62 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							160	1428	1831	-	-								
38	0-00-027-35601	BP UPR FRONT WALL PANEL+BP FRONT SCREEN TUBES (S-16 PANEL + S-16)	SA213T12 + SA213T12	44.45	7.62	GTAW + SMAW	7.62 ∇	ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
							160	1428	1831	-	-								
39	0-00-027-35601 0-00-027-35569	BP FRONT SCREEN TUBES+ BP FRONT O/L HDR (S-16 + S-22 NIPPLE)	SA213T12 + SA213T22	44.45	7.62	GTAW + SMAW	7.62 ∇	ER80S-B2	E8018-B2			1011/01	150	Nil	20%RT + 80% PAUT				
							160	1428	1831	-	-								
40	0-00-027-35569 0-00-027-35558	BP FRONT O/L HDR+ BP ROOF PANEL (S-22 NIPPLE + S-21)	SA213T22 + SA213T12	48.3	9.2	GTAW + SMAW	9.2 ∇	ER80S-B2	E8018-B2			1012/04	150	680-720	20%RT + 80% PAUT				
							160	1462	1226	360	-			30					
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12						
CUST No : 1834,1835										PG NAME : Superheater System									
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Superheater System									
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
56	0-12-187-03715 0-00-027-35547	BP BYPASS PIPE + LINK FROM SH CONNECTING PIPE (S-24 + S-01 TEE)	SA335P12 + SA234WP12CL1	273	45	GTAW + SMAW	39.38 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
						8	696	157	257	821			115						
57	0-12-187-03715 0-00-027-35547	BP BYPASS PIPE+ BP BYPASS PIPE (S-24 + S-24)	SA335P12 + SA335P12	273	45	GTAW + SMAW	39.38 ∇∇	ER80S-B2	E8018-B2			1010/06	150	650-670	100% RT 100% MPI/LPI			NDT after SR	01
						20	1740	392	642	2051			115						
58	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L HDR+SH PLATEN FRONT I/L TERM TUBE (S-26 NIPPLE + S-27TI(1))	SA213T22 + SA213T22	50.8	8.64	GTAW + SMAW	8.64 ∇	ER90S-B3	E9018-B3			1014/03	150	680-720	20%RT + 80% PAUT				
						34	349	286	62	-			30						
59	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L HDR+SH PLATEN FRONT I/L TERM TUBE (S-26 NIPPLE + S-27TI (2-3))	SA213T22 + SA213T22	44.5	7.1	GTAW + SMAW	7.1 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	20%RT + 80% PAUT				
						68	630	685	-	-									
60	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L HDR+SH PLATEN FRONT I/L TERM TUBE (S-26 NIPPLE + S-27TI (4-18))	SA213T22 + SA213T22	33.4	6.6	GTAW + SMAW	6.6 ∇	ER90S-B3	E9018-B3			1013/02	150	Nil	20%RT + 80% PAUT				
						510	3122	3375	-	-									
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE CUST No : 1834,1835 PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW) WELDING CODE : IBR / ASME										PG NO : 12 PG NAME : Superheater System SYSTEM DESCRIPTION : Superheater System CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-.		REMARKS	REV				
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.													
									Ø2.5	Ø3.15					Ø4.0							
61	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L TERM TUBE+SH PLATEN FRONT ASSY (S-27TI(1) + S-27(1))	SA213T22 + SA213T22	50.8	8.64	GTAW + SMAW	8.64 ∇ 34	ER90S-B3 349	E9018-B3 286 62 -			1014/03	150 30	680-720 100% RT								
62	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L TERM TUBE+SH PLATEN FRONT ASSY (S-27TI(2-3) + S-27(2-3))	SA213T22 + SA213T22	44.5	7.1	GTAW + SMAW	7.1 ∇ 68	ER90S-B3 630	E9018-B3 685 - -			1013/02	150 	Nil 100% RT								
63	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT I/L TERM TUBE+SH PLATEN FRONT ASSY (S-27TI(4-18) + S-27(4-18))	SA213T22 + SA213T22	33.4	6.6	GTAW + SMAW	6.6 ∇ 510	ER90S-B3 3122	E9018-B3 3375 - -			1013/02	150 	Nil 100% RT								
64	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT ASSY+ SH PLATEN FRONT O/L TERM TUBE (S-27 (1) + S-27TO (1))	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.64	GTAW	8.64 ∇ 34	Nittetsu YT304H / Super TIG 304H 4683	- - - -			1054/03	10 	Nil 100% RT								
65	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT ASSY+ SH PLATEN FRONT O/L TERM TUBE (S-27 (2-18) + S-27TO (2-18))	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.11	GTAW	7.11 ∇ 578	Nittetsu YT304H / Super TIG 304H 48606	- - - -			1054/03	10 	Nil 100% RT								
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.					
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-12-SH-EWS		1		13/20					
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12						
CUST No : 1834,1835												PG NAME : Superheater System							
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)												SYSTEM DESCRIPTION : Superheater System							
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
66	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT O/L TERM TUBE+ SH PLATEN FRONT O/L HDR (S-27TO (1) + S-28 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.64	GTAW	8.64 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT					
						34	4683	-	-	-									
67	0-00-027-35561 0-00-027-35562	SH PLATEN FRONT O/L TERM TUBE+ SH PLATEN FRONT O/L HDR (S-27TO (2-18) + S-28 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.11	GTAW	7.11 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT					
						578	48606	-	-	-									
68	0-12-178-03679 0-00-027-35547	SH PLATEN FRONT O/L HDR+ LINK TO SH DESUPERHEATER-1 (S-28 TEE + S-29)	SA234WP91 + SA335P91	559	80	GTAW + SMAW	70.00 ∇∇ ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB		
						2	371	134	179	1663			200						
69	0-12-178-03679 0-00-027-35547	LINK TO SH DESH-1+ LINK TO SH DESH-1 (S-29 + S-29)	SA335P91 + SA234WP91	559	80	GTAW + SMAW	70.00 ∇∇ ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB		
						6	1111	401	535	4987			200						
70	0-12-178-03679 0-00-027-35547	LINK TO SH DESH-1+ SH DESH-1 (S-29 + S-30)	SA335P91 + SA335P91	559	80	GTAW + SMAW	70.00 ∇∇ ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI			NDT after SR; 100% HC, 180 HB TO 300HB		
						2	371	134	179	1663			200						
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-12-SH-EWS		1		14/20	
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12						
CUST No : 1834,1835													PG NAME : Superheater System						
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)													SYSTEM DESCRIPTION : Superheater System						
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW										
									Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
71	0-12-178-03680 0-00-027-35547	SH DESH-1+ LINK FROM SH DESH-1 (S-30 + S-31)	SA335P91 + SA335P91	558.8	76.2	GTAW + SMAW	66.68 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB		
2	376	134	179	1544	195														
72	0-12-178-03680 0-00-027-35547	LINK FROM SH DESH-1+ LINK FROM SH DESH-1 (S-30 + S-30)	SA335P91 + SA234WP91	558.8	76.2	GTAW + SMAW	66.68 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB		
2	376	134	179	1544	195														
73	0-12-178-03680 0-00-027-35547	LINK FROM SH DESH-1+ SH PLATEN REAR I/L HDR (S-31 + S-32 TEE)	SA335P91 + SA234WP91	558.8	75	GTAW + SMAW	65.62 ∇∇	ER90S-B9	E9015-B91			1050/06	220	740-770	100% UT 100% MPI		NDT after SR; 100% HC, 180 HB TO 300HB		
2	378	134	179	1507	190														
74	0-00-027-35563 0-00-027-35564	SH PLATEN REAR I/L HDR+ SH PLATEN REAR I/L TERM TUBE (S-32 NIPPLE + S-33TI (1))	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.64	GTAW	8.64 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
34	4683	-	-	-															
75	0-00-027-35563 0-00-027-35564	SH PLATEN REAR I/L HDR+ SH PLATEN REAR I/L TERM TUBE (S-32 NIPPLE + S-33TI (2-18))	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.11	GTAW	7.11 ∇	Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
578	48606	-	-	-															
PREPARED				CHECKED (W.T.C)				APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S			06-05-2026		1834-12-SH-EWS		1		15/20		
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12						
CUST No : 1834,1835													PG NAME : Superheater System						
PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)													SYSTEM DESCRIPTION : Superheater System						
WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS						CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW Qty in gms	SMAW Qty in Nos.										
									Ø2.5	Ø3.15					Ø4.0				
76	0-00-027-35563 0-00-027-35564	SH PLATEN REAR I/L TERM TUBE+ SH PLATEN REAR ASSY (S-33TI (1) + S-33 (1))	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.64	GTAW	8.64 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT					
							34	4683	-	-	-								
77	0-00-027-35563 0-00-027-35564	SH PLATEN REAR I/L TERM TUBE+ SH PLATEN REAR ASSY (S-33TI (2-18) + S-33 (2-18))	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.11	GTAW	7.11 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT					
							578	48606	-	-	-								
78	0-00-027-35563 0-00-027-35564	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	8.64	GTAW	8.64 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT					
							34	4683	-	-	-								
79	0-00-027-35563 0-00-027-35564	SH PLATEN REAR ASSY+ SH PLATEN REAR O/L TERM TUBE (S-33 (2-18) + S-33TO (2-18))	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.11	GTAW	7.11 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	100% RT					
							578	48606	-	-	-								
80	0-00-027-35563 0-00-027-35564	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (1) + S-34 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	50.8	8.64	GTAW	8.64 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT					
							34	4683	-	-	-								
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-12-SH-EWS		1		16/20	
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 355-005/A (09-09-2016)		<u>ERECTION WELDING SCHEDULE</u>										PG NO : 12							
		CUST No : 1834,1835										PG NAME : Superheater System							
		PROJECT : Lara Super Thermal Power Plant - Stage-II (2x800 MW)										SYSTEM DESCRIPTION : Superheater System							
		WELDING CODE : IBR / ASME					PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF.-		REMARKS	REV	
				SIZE	THICK			GTAW	SMAW						SPEC. NO	ACC NORM			
									Qty in Nos.										
									Ø2.5	Ø3.15									Ø4.0
81	0-00-027-35563 0-00-027-35564	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO(2-3) + S-34 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.6	GTAW	7.6 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT					
							68	6461	-	-	-								
82	0-00-027-35563 0-00-027-35564	SH PLATEN REAR O/L TERM TUBE+ SH PLATEN REAR O/L HDR (S-33TO (4-18) + S-34 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	44.45	8.1	GTAW	8.1 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT					
							510	54502	-	-	-								
83	0-12-179-03684	SH PLATEN REAR O/L HDR+ LINK FROM SH DESUPERHEATER-2 (S-34 TEE + S-35)	SA234WP92 + SA335P92	559	85	GTAW + SMAW	74.38 ∇∇ ER90S-B92	E9015-B92		1056/04		220	755 ± 15	100% UT 100% MPI			NDT after SR; 100% HC, 186 HB TO 300HB		
							2	363	134	179	1822		215						
84	0-12-179-03684	LINK FROM SH DESH-2 +LINK FROM SH DESH-2 (S-35 + S-35)	SA234WP92 + SA335P92	559	85	GTAW + SMAW	74.38 ∇∇ ER90S-B92	E9015-B92		1056/04		220	755 ± 15	100% UT 100% MPI			NDT after SR; 100% HC, 186 HB TO 300HB		
							4	726	268	357	3644		215						
85	0-12-179-03684	LINK FROM SH DESH-2+ SH DESUPERHEATER-2 (S-35 + S-36)	SA335P92 + SA335P92	559	85	GTAW + SMAW	74.38 ∇∇ ER90S-B92	E9015-B92		1056/04		220	755 ± 15	100% UT 100% MPI			NDT after SR; 100% HC, 186 HB TO 300HB		
							2	363	134	179	1822		215						
PREPARED				CHECKED (W.T.C)				APPROVED				DATE		DOC NO.		REV NO :		PAGE NO.	
RUDRABHATLA SAIKUMAR				MANIKANDAN C				ANAND KUMAR S				06-05-2026		1834-12-SH-EWS		1		17/20	
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 355-005/A (09-09-2016)			ERECTION WELDING SCHEDULE										PG NO : 12					
CUST No : 1834,1835													PG NAME : Superheater System					
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WELDING CODE : IBR / ASME						PRESSURE PARTS/ NON-PRESSURE PARTS					CUST DOC NO : 9587-001-102-QVM-Q-185 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 Qty in Nos.	ELECTRODE FILLER SPEC			WPS NO/REV NO.	MIN. PRE HEAT TEMP.	PWHT TEMP. in TIME in mins	NDT METHOD/ QUANTUM	* REF-.		REMARKS	REV
				SIZE	THICK			GTAW	SMAW									
									Qty in Nos.									
									Ø2.5	Ø3.15					Ø4.0			
91	0-00-027-35565 0-00-027-35566	FINISH SH FRONT ASSY+ FINISH SH REAR ASSY (S-39 (1) + S-40 (1))	SA213 UNS S30432 + SA213 UNS S30432	44.45	8.1	GTAW	8.1 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
						104	11115	-	-	-								
92	0-00-027-35565 0-00-027-35566	FINISH SH FRONT ASSY+ FINISH SH REAR ASSY (S-39 (2-11) + S-40 (2-11))	SA213 UNS S30432 + SA213 UNS S30432	44.45	7.6	GTAW	7.6 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
						1040	98807	-	-	-								
93	0-00-027-35565 0-00-027-35566	FINISH SH REAR ASSY+ FINISH SH O/L TERM TUBE (S-40 (1-11) + S-40TI (1-11))	SA213 UNS S30432 + SA213 UNS S30432	38.1	9.14	GTAW	9.14 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
						1144	131277	-	-	-								
94	0-00-027-35565 0-00-027-35566	FINISH SH REAR ASSY+ FINISH SH O/L HDR (S-40 (1-11) + S-41 NIPPLE)	SA213 UNS S30432 + SA213 UNS S30432	38.1	9.14	GTAW	9.14 ∇ Nittetsu YT304H / Super TIG 304H	-			1054/03	10	Nil	20%RT + 80% PAUT				
						1144	131277	-	-	-								
95	0-00-027-35552 0-00-027-35553 0-00-027-35554	SC FURN ARCH SUPPT I/L HDR+ STEAM COOLED SPACER TUBE (S-09A + S-44), (S-44+S-44)	SA213T12 + SA213T12	50.8	9.14	GTAW + SMAW	9.14 ∇ ER80S-B2	E8018-B2			1009/03	150	Nil	20%RT + 80% PAUT				
						6	60	50	14	-								
PREPARED				CHECKED (W.T.C)			APPROVED			DATE		DOC NO.		REV NO :		PAGE NO.		
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