2.D L/S		2.C Shell	2.B Dis	2.A Pro	2 In I	1.B STD	1.A Matu	1 Rav	SR No.	CLIENT PO No. DATE QRN NO. SO No.
	L/Seam and C/Seam Backchip & DP	Shell L-Seam, C-Seam Setup	Dish End Inspection	Procedure & Welder Qualification	In Process	STD Nozzle Pipes & Flanges	Material for Shell & Dish end	Raw Material	COMPONENT / OPERATION	CLIENT : RALLIS INDIA LIMITED PO No. : 4900017647 DATE : 16/08/2022 QRN NO.: QRN-8118/R0 SO No. : 672
	Soundness of root pass	Ht, OCF. Thk, Weld Edge Preperation, Root Gap & Mismatch	Check with Template, Dimensions, DPT at WEP & Knucke.	Suitability of Procedure & Welder Skill		Visual, Dimensional, Mechanical & Chemical Test / Properties	Visual, Dimensional, Mechanical & Chemical Test / Properties		CHARACT, CHECKED	TED.
	Visual & DP	Dimensional & Visual	Dimensional & NDT	Mechanical testing of weld coupon & RT		Correlation with Lab T.C. Mill T.C.	Correlation with Lab T.C. Mill T.C.		TYPE/METHOD OF CHECK	CHEMDIST PR QUALI QAP NO: CI D
As per approved G.A.	100%	100%	100%	100%		One per heat/Lot	One per heat/Lot		EXTENT	PROCESS SOLUTIO JTY ASSURANCE I DPS-QAP-SO-672 DT 19/08/2022
As per ASME SEC VIII & Sev V	As per ASME SEC VIII & Sev V Inspection report	As per approved G.A. Drg. / Specifications	As per approved G.A. Drg. / Specifications/ASME Sec VIII & Sec V	ASME SEC IX		ASME Sec. II & Approved G.A. Drg. / Specifications	ASME Sec. II & Approved G.A. Drg. / Specifications		REF. DOCUMENT / ACCEPTANCE NORM	NS PVT LTD PLAN B, REV-00
RT Report	Inspection report	Inspection report	Inspection report	WPS/PQR/WPQ Records		Material History Chart	Material History Chart		FORMAT OF RECORD	ITEM DESC.: 1. SS316 BATCH TANK 500LTR. (ST-03A/B) QTY.:- 02 NOS.
P	×	M	×	P		8	W	CDPS	INSPECTION BY	1 TANK 5
R	R	R	R	R		æ	R	CLIENT	TON BY	00LTR. (S
				Witness only for New Procedure, Otherwise Only Review.		Mechanical test at NABL accredited lab. 3. Ultrasonic Testing For Plate above 20mm thk.	1. EN 10204 3.1 Certification Required. 2. If TC is not available, then samples to be drawn from material for chemical &		REMARKS	5T-03A/B)

per approved G.A. Drg. / Specifications As per scope/Drg./ As per Scope/ Drg./ Specifications As per scope/Drg.	Dimensional & 100% As per approved G.A. Drg. / Visual Check 100% As per scope/Drg. Water 100% As per scope/Drg. Finish 100% As per Scope/ Drg./ Specifications	nsional & 100% As per approved G.A. Drg. / Specifications Water 100% As per scope/Drg. Water 100% As per scope/Drg./ Specifications As per scope/Drg./ Specifications Prepared out by GTAW. P: PERFORM Prepared by: RAHUL CHAVAN Prepared by: RAHUL CHAVAN Prepared by: RAHUL CHAVAN
Water 100% As per scope/Drg./ Finish 100% As per Scope/Drg./ Specifications As per Scope/Drg./ Specifications Review of documents 100% As per scope/Drg.	Visual Check Water 100% As per scope/Drg Finish 100% As per Scope/ Drg. Specifications As per Scope/ Drg. Specifications 100% As per Scope/ Drg. Specifications Specifications 100% As per scope/Drg. On root run welding to be carried out by GTAW. W: WITNESS, P: PERFORM	Water 100% As per scope/Drg Finish 100% As per Scope/Drg Review of documents 100% As per scope/Drg w: witness, p: perform Prepared by: RAHUL CHAVAN Prepared by: RAHUL CHAVAN
As per scope/Drg./ As per Scope/ Drg./ Specifications As per scope/Drg.	As per scope/Drg./ As per Scope/ Drg./ Specifications As per scope/Drg.	As per Scope/Drg./ Specifications Specifications As per scope/Drg.
	As per Scope/ Drg./ Specifications As per scope/Drg.	As per Scope/ Drg./ Specifications As per scope/Drg. As per scope/Drg.
As per scope/Drg.	As per scope/Drg.	As per scope/Drg.
As per scope/Drg.	As per scope/Drg.	As per scope/Drg.
n welding to be carried out by GTAW.		JL CHAVAN
	P: PERFORM	P: PERFORM Prepared by: RAHUL CHAVAN

2.F.	2.E.	2.D.	2.C.	2.В.	2.A.	2	1.C.	1.B.	1A	Д	Sr.	CLIENT PO No. DATE QRN NO. SO No.
Radiography of Butt Welds (If any)	Tubesheets : Inspection at source	L/Seam and C/Seam Backchip & DP test	Main Shell & Bonnet L-Seam, C-Seam Setup & Dishend Fitup	Bonnet Dishend Inspection	Procedure & Welder Qualification	In Process Inspection	Body Flanges & tube sheet Material	Nozzle Pipes & Flanges	Material Identification of Shell, Dish & Tubes	Material Inspection	COMPONENT / OPERATION	CLIENT : RALLIS INDIA LIMITED PO No. : 4900017647 DATE : 16/08/2022 QRN NO.: QRN-8118/R0 SO No. : 672
Soundness of Weld Joint	Orientation, Layout/ Finish, Ligament, Size of Tube Holes by GO-NOGO Gauge	Soundness of Root Pass	Height, OCF, Ovality, WEP, Root Gap & Mismatch	Profile Check with Template, Dimensions, LPT at WEP, SF & knuckle	Suitability of Procedure & Welder Skill		Mechanical & Chemical Properties	Mechanical & Chemical Properties	Mechanical & Chemical Properties		CHARACT. CHECKED	ſĒD.
RT Report Review	Dimensional & Visual	Visual & DPT	Dimensional & Visual	Dimensional & NDT	Mechanical Testing of Weld Coupon & RT		Lab T.C. / Mill T.C.	Correlation with Lab T.C. / Mill T.C.	Correlation with Lab T.C. / Mill T.C.		TYPE/ METHOD OF CHECK	CHEMDIST P QUAL QAP NO: C
As per GA drawing	100%	100%	100%	100%	100%		One per heat	One per heat	One per heat		EXTENT	IEMDIST PROCESS SOLUTIONS PVT L7 QUALITY ASSURANCE PLAN QAP NO: CDPS-QAP-SO-672A, REV-00 DT 19/08/2022
ASME SEC VIII, DIV. I	ASME SEC. VIII DIV. 1 & TEMA	ASME SEC. VIII DIV. 1 & SEC. V	As per approved G.A. Drg. / ASME SEC VIII DIV. 1	As per approved G.A. Drg. / ASME SEC VIII DIV. 1	ASME SEC. IX		As per approved G.A. Drg. / Specifications	As per approved G.A. Drg. / Specifications	As per approved G.A. Drg. / Specifications		REF. DOCUMENT / ACCEPTANCE NORMS	CHEMDIST PROCESS SOLUTIONS PVT LTD QUALITY ASSURANCE PLAN QAP NO: CDPS-QAP-SO-672A, REV-00 DT 19/08/2022
RT Report	Inspection report	Inspection Report	Inspection Report	Inspection Report	WPS/PQR/WPQ Records		Material History Chart	Material History Chart	Material History Chart		FORMAT OF RECORD	ITEM DESC.: 1. SS316 SHELL . QTY.:- 02 NOS.
P	ж	*	W	⋖	P		W	W	¥	CDPS	INSPEC	AND TUBE I
R	R	R	R	R	R		æ	R	R	CLIENT	INSPECTION BY	неат ехснаг
					Witness Only For New Procedure Otherwise Only Review		3. Ultrasonic Testing For Plate above 20mm thk.	2. If TC is not available, then samples to be drawn from material for chemical & Mechanical test at NABL accredited lab.	1. EN 10204 3.1 Certification Required.		REMARK	DESC. : 16 SHELL AND TUBE HEAT EXCHANGER 32.7M2 (HE-01A/B) 02 NOS.

	Constant Production	Q	3		sari,	Plot No J-174/1, J-Block, MIDC Bhosari Pune-411026	Plot No J-174, Pune-411026
	Solu.)	Prepared by: RAHUL CHAVAN	\	IONS PVT, LTD.	For, CHEMDIST PROCESS SOLUTIONS PVT. LTD.	
- 1			P: PERFORM	W: WITNESS,	NS PVT. LTD. R: REVIEW,	CDPS : CHEMDIST PROCESS SOLUTIONS PVT. LTD.,	PS : CH
		W process only.	carried out by GTAV	oot run welding to be	ossible, Full Penetration r	Note:- Wherever backchiping is not possible, Full Penetration root run welding to be carried out by GTAW process only.	ote:- W
	Equipment P Dossier	As per scope/Drg.	100%	Review of documents	Major	Final Document Review	4.A F
						Document Verification	4
	Inspection report W	As per scope/Drg.	100%	Pickling & Passivation / Painting	Surface Check	Surface Preparation (Pickling & Passivation of SS Parts / Painting of MS Parts)	3.C. (J
-	Inspection Report W	As per approved G.A. Drg. / ASME SEC VIII DIV. 1	100%	Water	Pressure Test (Leak Tightness)	Hydro Test (Shell & Tube Side).	3.B. H
_	Inspection Report W	As per approved G.A. Drg. / Specifications	100%	Dimensional & Visual Inspection	Overall Dimension	Dimensional & Visual Inspection	3.A. Ir
						Final Inspection	3
	Inspection report W	As per approved G.A. Drg. / AME SEC VIII DIV. 1 & TEMA	100%	Visual & Dimensional	Total Length - Shell Side, Alignment, Orientation, WEP, Gap	Tubesheet to Main Shell Fit- up	2.J. T
	Inspection report W	As per approved G.A. Drg. / AME SEC VIII DIV. 1 & TEMA	100%	Visual & Dimensional	Baffle spacing, qty, cut, thk, orientation, Shell cleanliness before insertion	Inspection of Tube Bundle (Skeleton Set-up)	2.1.
8	Inspection Report	ASME SEC. VIII DIV. 1 & SEC. V	100%	Visual & DPT	Soundness of root pass	Nozzle weld backchip DPT	2.H. N
	Inspection Report W	As per approved G.A. Drg. / ASME SEC VIII DIV. 1	100%	Dimensional & Visual	Elevation, Weld Edge Prep, Orientation & Bolt hole straddleness	Nozzle to Shell / Dish Fitup	2.G. N
	FORMAT OF INSPECTION BY	REF. DOCUMENT / ACCEPTANCE NORMS	EXTENT	TYPE/ METHOD OF CHECK	CHARACT. CHECKED	COMPONENT / OPERATION	Sr.
	ITEM DESC.: 1. SS316 SHELL AND TUBE HEAT EXCHANGER 32.7M2 (HE-01A/B) QTY.:- 02 NOS.	CHEMDIST PROCESS SOLUTIONS PVT LTD QUALITY ASSURANCE PLAN QAP NO: CDPS-QAP-SO-672A, REV-00 DT 19/08/2022	IST PROCESS SOLUTIONS P QUALITY ASSURANCE PLAN NO: CDPS-QAP-SO-672A, RE DT 19/08/2022	CHEMDIST I QUAI QAP NO: C	Ë	: KALLIS INDIA LIMITED : 4900017647 : 16/08/2022).: QRN-8118/R0 : 672	PO No. DATE QRN NO. SO No.
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