

PURCHASE ORDER No./LOI NO.

EQUIPMENT DESCRIPTION & TAG No.

VENDOR NAME

CHEMDIST PROCESS SOLUTIONS PVT. LTD

QUALITY ASSURANCE PLAN	N (REACTOR)		
9222100090 DT. 12.05.2022	QAP Document No	CDPS-QAP-SO-646, REV-00	Date- 17.05.2022
CHEMDIST PROCESS SOLUTIONS PVT. LTD	PROJECT	EV-XYZ, JOLVA	
4KL CS CAUSTIC PREPARATION TANK WITH CS LIMPET COIL (T-1611)	INSPECTION BY	ELECTROMECH ENGINEERING ENTERPRISE	S

DRAWING NUMBER & REVISON CDPS SO NO. 646

C. N.	INSPECTION ACTIVITY & DESCRIPTION	CHARACTERISTICS	TYPE (NASTURE OF CUITOR	REFERENCE ACCEPTANCE	5001447 05 050000	INSPECTION By		Ву	2514181/	
Sr. No.			TYPE/METHOD OF CHECK	DOCUMENTS	CRETERIA/STANDARD	FORMAT OF RECORD	VENDOR	TPI	GFL	REMARK
1	DOCUMENT CONTROL & APPROVALS	5								
1.1	REVIEW & APPROVAL OF G.A. & FABRICATION DRAWING	ASSEMBLY AND DETAILED ENGINEERING DRAWING	REVIEW & APPROVED	P.O./DATASHEET/APPL	ICABLE ASME CODE	APPROVED DRAWING	Р	R	А	Approved by Client
1.2	APPROVAL OF INSPECTION & TEST PLAN	APPROVED DRAWING & SPECIFICATION	REVIEW & APPROVED	P.O./DATASHEET/APPL CODE/DRAWING/TECH		QUALITY ASSURANCE PLAN	Р	R	A	Approved by Client
1.3	APPORVAL OF WELDING DOCUMENTS & CONSUMABLES	AS PER WELDING DETAILS & REVIEW OF WPS/PQR/WPQ & QUALIFICATION REQUIREMENT	WPS, PQR, WPQ, WELD MAP, WELDING PARAMETERS & TECHNIQUES	ASME SEC II, IX/APPRO	VED DRAWING & SPECIFICATION	WPS/PQR/WPQ/WELD MAP/CONSUMABLE TEST CERTIFICATE	Р	R	R	To be carried out if existing procedure not available
1.4	INSPECTION & TEST PROCEDURE FOR NDT, HYDRO/PNEUMATIC TEST ETC.	REVIEW/APPROVAL OF PROCEDURES	APPROVAL OF PROCEDURES	ASME SEC V, VII, IX	ASME SEC V, VIII, IX AND APPLICABLE STANDARDS	APPROVED PROCEDURES	Р	R	R	
2	MATERIAL CONTROL & IDENTIFICATI	ON (PRESSURE & NON PRESSURE PARTS	5)							
	PLATE MATERIAL FOR SHELL, DISHEND, LIMPET COIL ETC.	VISUAL AND DIMENSION CHECK	TEST CERTIFICATE	APPROVED DRAWING & APPLICABLE CODE		MILL TEST CERTIFICATES/LAB TEST	Р	w	R	1. EN 10204 3.1 CERTIFICATION REQUIRED 2. IF MTC IS NOT AVAILABLE, THEN SAMPLES TO BE
2.1		CO-RELATION OF MARKINGS WITH MILL TEST CERTIFICATES. MECHANICAL & CHEMICAL PROPERTIES, ETC.	VERIFICATION, VISUAL & IDENTIFICATION		APPLICABLE ASME STANDARD	REPORTS & INSPECTION REPORTS	Р	w	R	
		VISUAL AND DIMENSION CHECK				NAUL TECT	Р	w	R	DRAWN FROM MATERIAL
2.2	MATERIAL FOR STD NOZZLE PIPES & FLANGES	CO-RELATION OF MARKINGS WITH MATERIAL TEST CERTIFICATES. MECHANICAL & CHEMICAL PROPERTIES, ETC.	TEST CERTIFICATE VERIFICATION, VISUAL & IDENTIFICATION	APPROVED DRAWING & APPLICABLE CODE	APPLICABLE ASME STANDARD	MILL TEST CERTIFICATES/LAB TEST REPORTS & INSPECTION REPORTS	Р	w	R	FOR CHEMICAL & MECHANICAL TEST AT NABL ACCREDITED LAB.
2.3	FASTENERS, GASKETS	CO-RELATION OF MARKINGS WITH MATERIAL TEST CERTIFICATES. MECHANICAL & CHEMICAL PROPERTIES, ETC.	TEST CERTIFICATE VERIFICATION & IDENTIFICATION	APPROVED DRAWING / APPLICABLE CODE	APPLICABLE ASME STANDARD	MILL TEST CERTIFICATES/LAB TEST REPORTS & INSPECTION REPORTS	Р	R	R	
2.4	OTHER PRESSURE & NON PRESSURE PARTS (INTERNAL & EXTERNAL ATTACHMENTS)	REVIEW OF MATERIAL TEST CERTIFICATES	TEST CERTIFICATE VERIFICATION	APPROVED DRAWING	APPLICABLE ASME STANDARD	MILL TEST CERTIFICATES/LAB TEST REPORTS & INSPECTION REPORTS	Р	R	R	
2.5	POSITIVE MATERIAL IDENTIFICATION	PMI OF ALL STAINLESS STEEL AND SPECIAL MATELLURGY MATERIALS COMPONENTS	ONE SPOT EACH	APPROVED DRAWING	APPLICABLE ASME STANDARD	INSPECTION REPORT	Р	R	R	NA FOR SS304
2.6	OTHER BOUGHT OUT ITEMS	MOTOR, GEAR BOX, MECHANICAL SEAL, FLUSH BOTTOM VALVE ETC.	ROUTINE TEST	APPROVED DRAWING	AS PER APPLICABLE PARAMETER AND TECHNICAL DATA SHEET	ITEM TEST CERTIFICATE	Р	R	R	



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VENDOR NAME	CHEMDIST PROCESS SOLUTIONS PVT. LTD	PROJECT	EV-XYZ, JOLVA		
EQUIPMENT DESCRIPTION & TAG No.	4KL CS CAUSTIC PREPARATION TANK WITH CS LIMPET COIL (T-1611)	INSPECTION BY	ELECTROMECH ENGINEERING ENTERPRISES		
DRAWING NUMBER & REVISON - CDPS SO NO. 646		646			

Sr. No.	INSPECTION ACTIVITY & DESCRIPTION	CHARACTERISTICS	TYPE/METHOD OF CHECK	REFERENCE	ACCEPTANCE	FORMAT OF RECORD	IN	SPECTION	Ву	REMARK	
3r. NO.	INSPECTION ACTIVITY & DESCRIPTION	CHARACTERISTICS	TTPE/WETHOD OF CHECK	DOCUMENTS	CRETERIA/STANDARD	FORIVIAT OF RECORD	VENDOR	TPI	GFL	REWARK	
3	MANUFACTURING STAGES AND PRO	CESS CONTROL								_	
	FORMED COMPONENTS (SHELL, DISH ETC.)	VISUAL AND DIMENSION CHECK	VISUAL, MEASUREMENT, PROFILE CHECKING	APPROVED DRAWING & NDT PROCEDURE APPLICABLE ASME STAI		INSPECTION REPORT	Р	R	R	IF REQUIRED STRESS	
3.1		DPT ON DISHED ENDS- CROWN & KNUCKLE PORTION	INSIDE & OUTSIDE SURFACE OF KNUCKLE PORTION & EDGES		APPLICABLE ASME STANDARDS		Р	W	R	RELEIVING TO BE DONE.	
3.2	FIT-UP OF L/S, C/S, BOTTOM PLATE JOINTS	VISUAL, DIMENSION, WELD EDGE PREPARATION, ROOT GAP, OFFSET, ALIGNMENT ETC.	VISUAL, MEASUREMENT, PROFILE CHECKING	APPROVED DRG.	APPLICABLE DRAWING & ASME STANDARD	INSPECTION REPORT	Р	R	R		
3.3	FIT UP OF SHELL TO NOZZLES, ROOF, LIMPET COIL ETC	VISUAL, DIMENSION, EDGE PREPARATION, ROOT GAP, PT EXAMINATION ON WEP	VISUAL AND MEASUREMENT	APPROVED DRG. & NDT PROCEDURE	APPLICABLE ASME STANDARD	INSPECTION REPORT	Р	R	R		
3.4	INSPECTION OF COMPLETED WELDS	VISUAL INSPECTION FOR UNDERCUTS, REINFORCEMENTS & OTHER SURFACE DEFECTS	VISUAL AND MEASUREMENT	APPROVED DRAWING & NDT PROCEDURE	I ADDITORI E AS	APPLICABLE ASME STANDARDS	INSPECTION REPORT	Р	R	R	
		TO CHECK WELDING / FABRICATION QUALITY	APPLICABLE NDT(DPT/RT/UT ETC.) AS PER WELD PLAN			NDT REPORTS/ RADIOGRAPHY FILMS	Р	w	R	REVIEW OF ALL RT REPORTS WITH FILMS	
3.5	- I	VISUAL, DIMENSION, WELDING	VISUAL AND MEASUREMENT	APPROVED DRAWING & NDT PROCEDURE	APPLICABLE ASME STANDARDS	INSPECTION REPORT	Р	R	R		
3.5		FABRICATION TESTING ETC.	APPLICABLE NDT METHODS		APPLICABLE ASIVIE STAINDARDS	TEST REPORTS	Р	R	R		
4	FINAL INSPECTION/TESTING			•		1			•		
4.1	FINAL DIMENSION AND WELD VISUAL (INTERNAL & EXTERNAL)	VISUAL AND DIMENSION CHECK OF COMPLETE ASSEMBLY	VISUAL AND MEASUREMENT	APPROVED DRAWING	APPROVED DRAWING AND SPECIFICATION	INSPECTION REPORT	Р	W	R		
4.2	PNEUMATIC TEST OF RF PADS/LINER	PRESSURE TEST OF LEAK TIGHTNESS BY AIR	VISUAL	APPROVED DRAWING & PROCEDURE	APPLICABLE ASME/API STANDARDS	INSPECTION REPORT	Р	R	R		
4.3	SPARK TESTING (IN CASE OF LINED EQUIPMENT	TO CHECK INTEGRITY OF LINING	SPARK TESTING	APPROVED DRAWING & AS PER PROCEDURE	NO SPARK	INSPECTION REPORT	Р	w	R		
4.4	WATER FILL TEST / HYDROSTATIC TEST	LEAK CHECK / PRSSSURE TEST OF LEAK TIGHTNESS BY WATER	VISUAL	APPROVED DRAWING & PROCEDURE	NO LEAKAGE / APPLICABLE ASME STANDARDS	INSPECTION REPORT	Р	w	R	WATER USED FOR HYDROTEST SHALL NOT BE MORE THAN 25PPM CHLORIDES.	
4.5	RUNNING TRIAL OF EQUIPMENT	RUNNING TRIAL WITH LOAD	CHECK AS PER PARAMETER	APPROVED DRAWING	AS PER APPLICABLE PARAMETER AND TECHNICAL DATA SHEET	INSPECTION REPORT	P	w	R		

Chem Dist PROCESS SOLUTIONS

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31. NO.	No. INSPECTION ACTIVITY & DESCRIPTION		TTPE/INIETHOD OF CHECK	DOCUMENTS	CRETERIA/STANDARD		VENDOR	TPI	GFL	REIVIARR
4.6	DRAINING & DRYING	VISUAL INSPECTION	VISUAL	AS PER PROCEDURE	COMPLETE DRAINING & DRYING	VISUAL VERIFICATION	Р	R	R	
4.7	SURFACE PREPARATION & PAINTING	SURFACE ROUGHNESS, FINISH & COATING THICKNESS CHECK	VISUAL AND MEASUREMENT	-	APPROVED DRAWING & PROCEDURE	INSPECTION REPORT	Р	R	R	
4.8		VISUAL INSPECTION FOR SURFACE CLEANLINESS	VISUAL	APPROVED DRAWING & SPECIFICATION	ASTM A 380/SPECIFICATION	INSPECTION REPORT	Р	R	R	
5	DISPATCH/DOCUMENTATION									
5.1	FINAL STAMPING ON NAME PLATE	VERIFYING NAME PLATES DETAILS AND STAMPING	VISUAL	APPROVED DRAWING	APPROVED DRAWING	NAME PLATE/RUB OFF	Р	V	R	
5.2	INSPECTION RELEASE NOTE	VERIFICATION OF DOCUMENTS	AS BUILT DRAWING	-	PURCHASE ORDER AND SPECIFICATION	RELEASE NOTE	Р	V	Н	
5.3	IDOCHMENTATION	VERIFICATION & COMPILATION OF INSPECTION & TEST RECORDS	-	-	PURCHASE ORDER AND SPECIFICATION	QUALITY CONTROL DOSSIER	Р	R	R	

LEGENDS- P: PERFORM, V: VERIFICATION/REVIEW OF REPORT, R: REVIEW, W: WITNESS, H: HOLD, A: APPROVAL, TPI-THIRD PARTY INSPECTION, RW-RANDOM WITNESS

NOTE-

- 1. ALL STAGE WISE FABRICATION INSPECTION SHALL BE DONE BY FABRICATOR AND INSPECTION REPORTS SHALL BE MAINTAINED FOR THE SAME.
- 2. RAW MATERIAL IMPACT TEST SHALL BE CARRIED OUT IF NECESSARY AS PER DRAWING AND CODES & STANDANDRS.
- 3. EQUIPMENT ORIENTATION MARKING SHALL BE REQUIRE FOR FURTHER SITE INSTALLATION. (TOP & BOTTOM)
- 4. WHEREVER BACKCHIPING IS NOT POSSIBLE, FULL PENETRATION ROOT RUN WELDING TO BE CARRIED OUT BY GTAW PROCESS.



Mr. Pravin Shelka Approved By Vendor

Approved/Reviewed By TPI

Approved By GFL