





Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM			
				Rev 00 Page 0 of 12

<p>tkIS India / Vendor</p> <p>Category Codes (Submission Purpose)</p> <table style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>1 For Approval</td></tr> <tr><td><input type="checkbox"/></td><td>2 For Review / Comments</td></tr> <tr><td><input type="checkbox"/></td><td>3 For Information</td></tr> <tr><td><input type="checkbox"/></td><td>4 For Engineering</td></tr> <tr><td><input type="checkbox"/></td><td>5 For Enquiry</td></tr> <tr><td><input type="checkbox"/></td><td>6 For Order Placement</td></tr> <tr><td><input type="checkbox"/></td><td>7 Final & Approved</td></tr> <tr><td><input type="checkbox"/></td><td>8 Released for Construction</td></tr> </table> <hr/> <p>Acceptance Codes (Approval Codes)</p> <table style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>1 Approved</td></tr> <tr><td><input type="checkbox"/></td><td>2 Approved for Manufacturing / Fabrication with Comments as marked</td></tr> <tr><td><input type="checkbox"/></td><td>3 Not Approved / Resubmit</td></tr> <tr><td><input type="checkbox"/></td><td>4 Retained for Information / Records</td></tr> <tr><td><input type="checkbox"/></td><td>5 Reviewed</td></tr> <tr><td><input type="checkbox"/></td><td>6 Reviewed as Noted / Resubmit</td></tr> </table> <p>Remarks for AC2 : This marked-up drawings is hereby approved for fabrication / manufacturing and shall be re-submitted after revision. This drawing should be revised only to the extent of tkIS India / Owner / Client comments. Any other changes made by you will not be considered unless clearly highlighted in covering letter asking for approval.</p> <p>This approval / review does not absolve the supplier from the full responsibility for design and fabrication.</p> <p>Date : ___/___/____ Name : _____</p>	<input type="checkbox"/>	1 For Approval	<input type="checkbox"/>	2 For Review / Comments	<input type="checkbox"/>	3 For Information	<input type="checkbox"/>	4 For Engineering	<input type="checkbox"/>	5 For Enquiry	<input type="checkbox"/>	6 For Order Placement	<input type="checkbox"/>	7 Final & Approved	<input type="checkbox"/>	8 Released for Construction	<input type="checkbox"/>	1 Approved	<input type="checkbox"/>	2 Approved for Manufacturing / Fabrication with Comments as marked	<input type="checkbox"/>	3 Not Approved / Resubmit	<input type="checkbox"/>	4 Retained for Information / Records	<input type="checkbox"/>	5 Reviewed	<input type="checkbox"/>	6 Reviewed as Noted / Resubmit	<p>tkIS India / Owner / Client</p> <p>Category Codes (Submission Purpose)</p> <table style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>1 For Approval</td></tr> <tr><td><input type="checkbox"/></td><td>2 For Review / Comments</td></tr> <tr><td><input type="checkbox"/></td><td>3 For Information</td></tr> <tr><td><input type="checkbox"/></td><td>4 For Engineering</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>5 For Enquiry</td></tr> <tr><td><input type="checkbox"/></td><td>6 For Order Placement</td></tr> <tr><td><input type="checkbox"/></td><td>7 Final & Approved</td></tr> <tr><td><input type="checkbox"/></td><td>8 Released for Construction</td></tr> </table> <hr/> <p>Acceptance Codes (Approval Codes)</p> <table style="width: 100%;"> <tr><td><input type="checkbox"/></td><td>1 Approved</td></tr> <tr><td><input type="checkbox"/></td><td>2 Approved for Manufacturing / Fabrication with Comments as marked</td></tr> <tr><td><input type="checkbox"/></td><td>3 Not Approved / Resubmit</td></tr> <tr><td><input type="checkbox"/></td><td>4 Retained for Information / Records</td></tr> <tr><td><input type="checkbox"/></td><td>5 Reviewed</td></tr> <tr><td><input type="checkbox"/></td><td>6 Reviewed as Noted / Resubmit</td></tr> </table> <p>Date : ___/___/____ Name : _____</p>	<input type="checkbox"/>	1 For Approval	<input type="checkbox"/>	2 For Review / Comments	<input type="checkbox"/>	3 For Information	<input type="checkbox"/>	4 For Engineering	<input checked="" type="checkbox"/>	5 For Enquiry	<input type="checkbox"/>	6 For Order Placement	<input type="checkbox"/>	7 Final & Approved	<input type="checkbox"/>	8 Released for Construction	<input type="checkbox"/>	1 Approved	<input type="checkbox"/>	2 Approved for Manufacturing / Fabrication with Comments as marked	<input type="checkbox"/>	3 Not Approved / Resubmit	<input type="checkbox"/>	4 Retained for Information / Records	<input type="checkbox"/>	5 Reviewed	<input type="checkbox"/>	6 Reviewed as Noted / Resubmit
<input type="checkbox"/>	1 For Approval																																																								
<input type="checkbox"/>	2 For Review / Comments																																																								
<input type="checkbox"/>	3 For Information																																																								
<input type="checkbox"/>	4 For Engineering																																																								
<input type="checkbox"/>	5 For Enquiry																																																								
<input type="checkbox"/>	6 For Order Placement																																																								
<input type="checkbox"/>	7 Final & Approved																																																								
<input type="checkbox"/>	8 Released for Construction																																																								
<input type="checkbox"/>	1 Approved																																																								
<input type="checkbox"/>	2 Approved for Manufacturing / Fabrication with Comments as marked																																																								
<input type="checkbox"/>	3 Not Approved / Resubmit																																																								
<input type="checkbox"/>	4 Retained for Information / Records																																																								
<input type="checkbox"/>	5 Reviewed																																																								
<input type="checkbox"/>	6 Reviewed as Noted / Resubmit																																																								
<input type="checkbox"/>	1 For Approval																																																								
<input type="checkbox"/>	2 For Review / Comments																																																								
<input type="checkbox"/>	3 For Information																																																								
<input type="checkbox"/>	4 For Engineering																																																								
<input checked="" type="checkbox"/>	5 For Enquiry																																																								
<input type="checkbox"/>	6 For Order Placement																																																								
<input type="checkbox"/>	7 Final & Approved																																																								
<input type="checkbox"/>	8 Released for Construction																																																								
<input type="checkbox"/>	1 Approved																																																								
<input type="checkbox"/>	2 Approved for Manufacturing / Fabrication with Comments as marked																																																								
<input type="checkbox"/>	3 Not Approved / Resubmit																																																								
<input type="checkbox"/>	4 Retained for Information / Records																																																								
<input type="checkbox"/>	5 Reviewed																																																								
<input type="checkbox"/>	6 Reviewed as Noted / Resubmit																																																								

00	IFE	ISSUED FOR ENQUIRY	20/12/18	ADE	20/12/18	PRK	20/12/18	PRK	-	
Rev.	Status	Description	Date	Prepared	Date	Checked	Date	Approved	AC	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;">Barcode</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Category Code: -5</div> </div>										
© thyssenkrupp Industrial Solutions (India) Private Limited 2017										



Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

CONTENTS:

NO.	DESCRIPTION	PAGE NOS.
A.	General Specifications	2
B.	Inspection and testing requirements	3
C.	Documentation requirements	4 ~ 5
D.	Compliance Declaration	6 ~ 8
E.	Data Sheets – Voltage Deviation Transducers	9 ~ 10
F.	Data Sheets – Voltage Deviation Transducers	11
G.		
H.		
I.		

DOCUMENTS ATTACHED:

NO.	DESCRIPTION	NO. OF PAGES	DOCUMENT NO.	LATEST REV.
1.	Block Diagram for Voltage deviation measurement system	1		
2.				

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

STANDARD GENERAL SPECIFICATION – VOLTAGE DEVIATION MEASUREMENT SYSTEM

1.0 GENERAL

This specification covers the general requirements of differential voltage transducers for electrolyzers. Detailed requirements are as per the individual data sheets attached.

2.0 SPECIAL REQUIREMENTS



- a. The voltage deviation to current transducer shall be used to convert the voltage deviation across electrolyzer. The differential voltage between 1st element upto the middle element (V1) and last element upto the middle element (V2) shall be measured. For details refer block diagram. This device shall be used to check for damage to any one of the cell elements/ membranes of electrolyzer.
- b. The accuracy of instrument shall be applicable for range of V1 and V2 as specified in block diagram.
- c. The instruments shall be designed such that overheating of electronics does not take place.
- d. The transducer shall be enclosed in SS316/ FRP enclosure, which shall be weatherproof to IEC 60529, IP65.

3.0 IDENTIFICATION

- 3.1 Each instrument shall be identified with the following information inscribed on a tag plate permanently fixed to it.
 - a. Manufacturer's name.
 - b. Model number.
 - c. Tag number/serial number.

4.0 INFORMATION REQUIRED WITH THE BID.

- 4.1 Vendor shall submit the following information with the bid.
 - a. Catalogues/literature for transducer model.
 - b. Spare parts required for two years continuous trouble free operation

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

INSPECTION AND TESTING



The vendor shall be responsible for completing all the in-house testing and test reports. The same shall be ready before inspection by the clients/TKIS-India.

Following tests shall be offered as a minimum. Percentages indicated are for each lot offered for inspection. These are indicative only and the quantity of instruments selected as well as the inspection procedure followed shall be at the sole discretion of inspection engineer of the clients/ TKIS-India. The inspecting authority may, if desired, request for additional tests over and above those listed below or decide to waive the inspection.

S.NO.	DESCRIPTION	INSPECTION QUANTITY			REMARKS
		VENDOR	CLIENTS / TKIS-India	III RD PARTY	
1.	Physical inspection for quantity, tag number, general conformity with specifications.	100%	100%		
2.	Dimensional and mechanical inspection	100%	100%		
3.	Inspections for correct cable entry with thread gauge.	100%	20%		
4.	Calibration test for upto 5 measuring points(for 3 different levels of V1 and V2)	100%	100%		
5.					

Test and Calibration Instruments

Vendor shall arrange for all the test instruments and provide all the facilities/assistance for inspection and testing. All the test and measuring instruments shall be calibrated in a standard laboratory and the vendor shall produce valid calibration documents for the purposes of verification. The calibration shall be traceable to any of the approved national laboratories.

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

DOCUMENTATION REQUIREMENTS

S. NO	DOCUMENT	FOR INFORMATION AFTER PO/LOI				FOR APPROVAL AFTER PO/LOI				FINAL COPIES	
		TIME SCH. WEEK	COPIES (PRINTS)			TIME SCH. WEEK	COPIES (PRINTS)			S (1)	P (1)
			CLIEN TS	TKIS-India			CLIEN TS	TKIS-India			
1.	Schematic connection & wiring diagrams	2	2	1	-	-	-	-	-	3	4
2.	Instructions for installation	2	2	1	-	-	-	-	-	3	4
3.	Dimensional drawings and weights	2	2	1	-	-	-	-	-	3	4
4.	Cable connection diagrams	2	2	1	-	-	-	-	-	3	4
5.	Calibration procedures	-	-	-	-	-	-	-	-	3	4
6.	Operation & maintenance manual	-	-	-	-	-	-	-	-	3	4
7.	Test certificates (work certificates)	-	-	-	-	-	-	-	-	3	4

1. ABBREVIATIONS:

S : Soft Copies (.pdf files) (1 copy to client + 2 copies to tkIS (India))

P : Prints

2. NOTES:



- a) For Vendor documentation, wherever review/approval is specified, soft copy shall be sent to anand.nalawade@thyssenkrupp.com with copy to tkisindia.kcilkutctf@thyssenkrupp.com. Once the document is reviewed / approved, final sets of documents shall be sent to tkIS DMS office for further compilation as per following address. These shall not be dispatched to site directly.

➤ tkIS India Private Limited, UHDE House,



L.B.S. Marg, Vikhroli (West),

Mumbai 400083, India

Attention: Mr. D R Shah (Telephone: +91-22-4047 8264)

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

- b) Drawings to be submitted for approval shall be submitted as per timeline indicated above and in line with order specifications. Any deviations with respect to order specifications shall be listed separately. In absence of same, order specification will be governing document. It is vendor responsibility to get drawings approved and if required vendor to visit tkIS office to get drawings approved. Delivery period shall be as per terms and conditions of Purchase order and any delay in drawing approval will not be considered as reason for delay in delivery.
- c) Drawings submitted for information shall not be approved by tkIS - India. Vendor to note that documents prepared for the purpose of manufacturing shall not be sent to tkIS - India for approval. tkIS - India shall not be responsible for any mistakes/omissions in these documents as well as any delays due to the same. Specifications of instruments ordered shall be strictly as per tkIS - India data sheets which shall also form the basis for inspection.

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

COMPLIANCE DECLARATION & PTR

Please note that vendor shall indicate his replies to the following points without which the offer shall be liable for rejection.

Deviations, if any, from tkIS-India specifications, shall be listed in the enclosed format (List of Deviations) indicating the applicable specification clause. The vendor will be made liable for full compliance with the specification requirements, if deviations are not listed in 'List of Deviations', as it will be deemed as 'No deviation'.

SR. NO.	DESCRIPTION	EXPECTED REPLY	CONFIRMATION BY VENDOR	REMARKS
1.	Confirm that all deviations against tkIS-India specifications are consolidated under "List of Deviations". Deviations mentioned elsewhere will not be taken into consideration.	No Deviation	No deviation	
2.	Confirm that a soft copy of the technical bid, as per the attached format, is submitted with the technical offer.	Yes	Yes	
3.	Confirm that there is no discrepancy in the technical details outlined in the hard and soft copy of the offer.	No Discrepancy	No Discrepancy	
4.	Relevant Catalogues / literature giving specifications for all models offered including sizing data is enclosed with the offer.	Yes	Yes	
5.	Relevant Catalogues/specifications of all bought out items is enclosed with the offer.	Yes	Yes	
6.	Quoted for Spare parts recommended for 2 years continuous trouble-free operation along with listing.	Quoted	Quoted	
7.	Quoted and offered recommended Commissioning spares along with listing.	Quoted	Quoted	
8.	Quoted for 'Mandatory spares' if specified in tkIS-India specifications along with listing.	Quoted	Quoted	
9.	Confirm that PTR form, as per attached format, is submitted with the technical offer in any of the following cases: a) Vendor has not supplied the item to tkIS-India or to projects where tkIS-India is EPCM Contractor. b) Items/ part items not supplied to tkIS-India or to projects where tkIS-India was EPCM contractor. c) tkIS-India Enquiry specifically asks for PTR.	Yes	Yes	



(Signature of Vendor)

Name:

Designation :

Date :

(Company Seal)

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

LIST OF DEVIATIONS

Sr. No.	Doc. No:		Subject / Description	Deviation
	Clause No.	Page No.		
				No deviation



(Signature of Vendor)

Name :

Designation :

Date :

(Company Seal)

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
	Rev	00	Page		9



INDIVIDUAL SPECIFICATIONS FOR VOLTAGE DEVIATION TRANSDUCERS

TOTAL QUANTITY = 12 NOS+ 3 Nos Spare.

<i>Manufacturer</i>	:	*
<i>Instrument type</i>	:	Voltage difference to current converter
<i>Input signal</i>	:	-5 to +5 V
<i>Output signal</i>	:	4 – 20 mA DC
<i>Accuracy</i>	:	± 0.5% of span
<i>Power supply</i>	:	110 V AC
<i>Isolation</i>	:	Required, As per Page 10
<i>Isolation type</i>	:	Galvanic
<i>Common mode rejection ratio</i>	:	*
<i>Local indicator</i>	:	Required, in engg. Units.
<i>Transmitter mounting</i>	:	Wall mounting
<i>Cable entry connection</i>	:	M20 x 1.5, 3 nos.
<i>Enclosure</i>	:	IEC – 529, IP-65 with purge connection Bulk head connector(Push Fit type) 8mmOD PU tube
<i>Enclosure material</i>	:	SS316, with air purge
<i>Enclosure dimensions</i>	:	* (W) x * (H) x * (D)
<i>Area Classification</i>	:	Non – hazardous
<i>Terminals</i>	:	Polyamide, 2.5 mm ²

TAG DETAILS:

Sr. No.	Tag no.	Location	RANGE OF V1 AND V2 (INPUT VOLTAGES)	DEVIATION RANGE
1.	EDT -1101A1N	Cell House	60 to 120 V DC	-5 to +5 V
2.	EDT -1101A2N	Cell House	60 to 120 V DC	-5 to +5 V
3.	EDT -1101B1N	Cell House	60 to 120 V DC	-5 to +5 V
4.	EDT -1101B2N	Cell House	60 to 120 V DC	-5 to +5 V
5.	EDT -1101C1N	Cell House	60 to 120 V DC	-5 to +5 V
6.	EDT -1101C2N	Cell House	60 to 120 V DC	-5 to +5 V
7.	EDT -1101D1N	Cell House	60 to 120 V DC	-5 to +5 V
8.	EDT -1101D2N	Cell House	60 to 120 V DC	-5 to +5 V
9.	EDT -1101E1N	Cell House	60 to 120 V DC	-5 to +5 V
10.	EDT -1101E2N	Cell House	60 to 120 V DC	-5 to +5 V
11.	EDT -1101F1N	Cell House	60 to 120 V DC	-5 to +5 V
12.	EDT -1101F2N	Cell House	60 to 120 V DC	-5 to +5 V
13.	EDT -SPARE-1	Cell House	60 to 120 V DC	-5 to +5 V



Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

14.	EDT -SPARE-2	Cell House	60 to 120 V DC	-5 to +5 V
15.	EDT -SPARE-3	Cell House	60 to 120 V DC	-5 to +5 V

*- Vendor to Specify

FOLLOWING ISOLATIONS TO BE PROVIDED:

- a. INPUT TO OUTPUT ISOLATION: UPTO 600 V DC
- b. POWER SUPPLY TO INPUT ISOLATION: UPTO 600 V DC
- c. POWER SUPPLY TO OUTPUT ISOLATION: UPTO 600 V DC

Plant CAUSTIC SODA	Client Punjab Alkali	Contract Code PACL	Document ID 0215-INS-11-EC-0003	Contract No. 66- 0215-700	
	TECHNICAL SPECIFICATIONS FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM				
				Rev	00

INDIVIDUAL SPECIFICATIONS FOR SHUNT CURRENT TRANSDUCERS

TOTAL QUANTITY = 6 NOS+ 1 Nos Spare.

<i>Manufacturer</i>	:	*
<i>Instrument type</i>	:	Current Transducer
<i>Input signal</i>	:	0-60 mV DC
<i>Output signal</i>	:	4 – 20 mA DC
<i>Accuracy</i>	:	± 0.5% of span
<i>Power supply</i>	:	110 V AC
<i>Isolation</i>	:	Required, As given below
<i>Isolation type</i>	:	Galvanic
<i>Common mode rejection ratio</i>	:	*
<i>Local indicator</i>	:	Required, in engg. Units.
<i>Transmitter mounting</i>	:	Wall mounting
<i>Cable entry connection</i>	:	M20 x 1.5, 3 nos.
<i>Enclosure</i>	:	IEC – 529, IP-65 with purge connection Bulk head connector(Push Fit type) 8mmOD PU tube
<i>Enclosure material</i>	:	SS316
<i>Enclosure dimensions</i>	:	*
<i>Area Classification</i>	:	Non – hazardous
<i>Terminals</i>	:	Polyamide, 2.5 mm ²

TAG DETAILS:

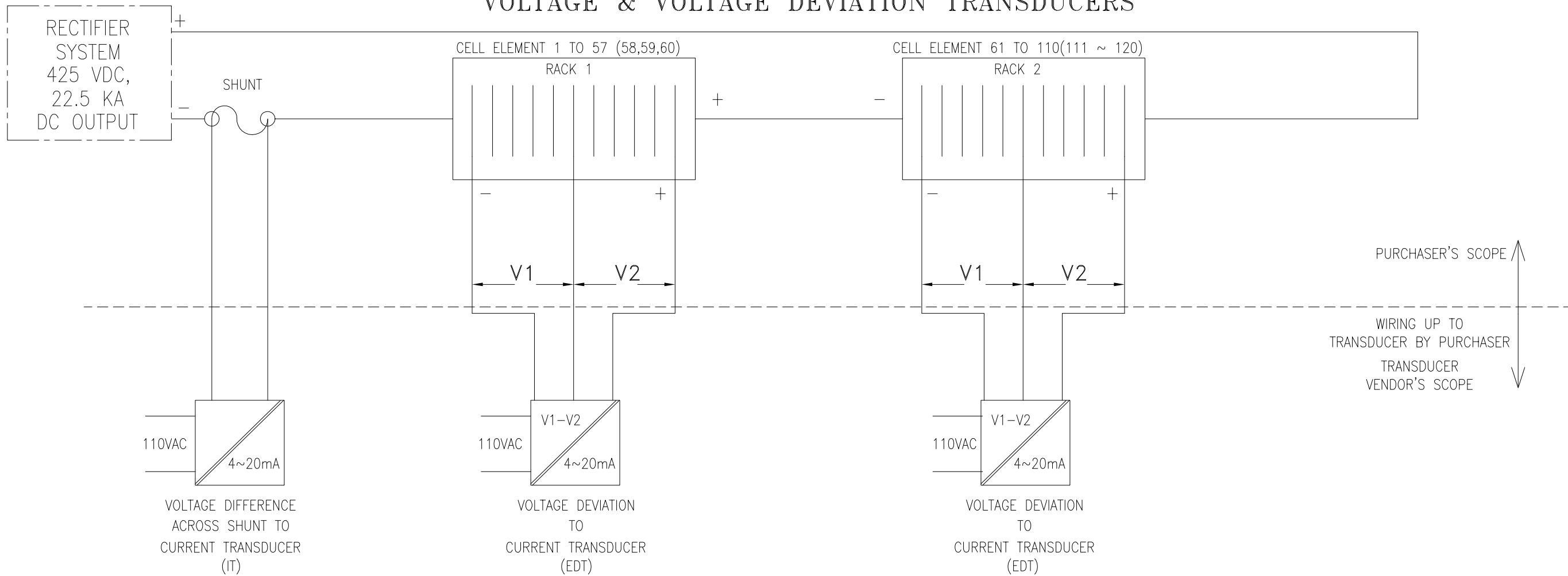
Sr. No.	Tag no.	Location	(INPUT VOLTAGES)
1.	IT -1101A	Cell House	0 to 60 mV DC
2.	IT -1101B	Cell House	0 to 60 mV DC
3.	IT -1101C	Cell House	0 to 60 mV DC
4.	IT -1101D	Cell House	0 to 60 mV DC
5.	IT -1101E	Cell House	0 to 60 mV DC
6.	IT -1101F	Cell House	0 to 60 mV DC
7.	IT -Spare-1	Cell House	0 to 60 mV DC

* - Vendor to Specify

FOLLOWING ISOLATIONS TO BE PROVIDED:

- a. INPUT TO OUTPUT ISOLATION: UPTO 600 V DC
- b. POWER SUPPLY TO INPUT ISOLATION: UPTO 600 V DC
- c. POWER SUPPLY TO OUTPUT ISOLATION: UPTO 600 V DC

**(TYPICAL FOR ONE ELECTROLYZER)
VOLTAGE & VOLTAGE DEVIATION TRANSDUCERS**



NOTES:-

- 1) TOTAL QTY OF VOLTAGE DEVIATION TRANSDUCERS IS 12Nos. + 3 No. SPARES, PLEASE REFER SPECIFICATIONS FOR TAG NOS. OF INDIVIDUAL VOLTAGE DEVIATION TRANSDUCERS.
- 2) TOTAL QTY OF CURRENT TRANSDUCERS IS 6Nos. + 1 No. SPARE, PLEASE REFER SPECIFICATIONS FOR TAG NOS. OF CURRENT TRANSDUCERS.

Document-ID-BAR-Code		00	20.12.2018	ADE	ADE	20.12.2018	PRK	20.12.2018	PRK	For Engineering		Code				All rights reserved thyssenkrupp Industrial © 2018 Solutions India Private Ltd.
Rev.	Date	Name	Date	Name	Date	Name	Date	Name	Description	Acc. Code	UAN	Document ID	Part	Group	Rev.	
		Drawn/Prepared		Checked		Approved					66-0215-700	0215-INS-11-EC-0003	000	-	0	
Pro. Unit	TON		Cat. Code	Acc. Code	Status	Date	Name	OWNER:						Description BLOCK DIAGRAM FOR VOLTAGE DEVIATION MEASUREMENT SYSTEM		
Con. Unit	Type of Document	Order No.	Scale	Tot. Sheets	Drawn	20.12.2018	ADE	PUNJAB ALKALIES & CHEMICAL LIMITED NAYA NANGAL								
	EC	-	-	12	Prepared	20.12.2018	ADE									
Store Location: Server		Store Location: Folder		Store Name		Checked	20.12.2018				PRK	PROJECT:			CAUSTIC SODA PLANT	
		660215-MPE\Instrumentation\Specs\Misc\VDMS		0215-CVMS schematics Rev 0		Approved	20.12.2018	PRK								

ISO A3