

## CALIBRATION CERTIFICATE

This is to certify that ADVIA CENTAUR CP bearing Serial No: ROB30006116 installed at IMPULSE DIADNOSTICS, HAILAKANDI ROAD, MEHERPUR, SILCHAR, ASSAM, has been calibrated on 17<sup>th</sup> August 2021.

The complete hardware calibration has been carried out for the best performance of the instrument as per the procedure. The following are the instrument calibration details.

### System Software – Ver. 6.2

#### Temperature

Module	Result (°C)	Range (°C)	Status
Cuvette Ring	37.1	36 – 38	Passed
Sample Environment	23.17	18 – 30	Passed
Reagent	9.4	8 – 11.3	Passed

#### Luminometer

Luminometer High Voltage ON – 1000 V

High Voltage OFF – 6V

Dark Counts without Cuvettes

Position	Result (RLU)	Range (RLU)	Status
Pos # 1	33	0 – 300	Passed
Pos # 2	33	0 – 300	Passed
Pos # 3	43	0 – 300	Passed
Pos # 4	30	0 – 300	Passed
Pos # 5	46	0 – 300	Passed
Pos # 6	30	0 – 300	Passed
Average	35	0 – 300	Passed

#### Sample Probe Pressure Sensor Calibration

Sample Air pump = 29.0 % (The acceptable range is 25% to 40%)

Restricted

### Reagent Probe Sensor Test

Medium	Result (Voltage)	Range (Voltage)	Status
With Water	0.9671	0.85 – 1.05	Passed
With Air	3.4755	3.20 – 4.20	Passed

The instrument is working satisfactory as per above parameter calibrations. The next calibration due is on 16-02-2022.

**Siemens Healthcare Private Limited**

*Kamal Kumar Baishya*

**Kamal Kr. Baishya**

Manager: Customer Service

Silchar, Assam

17<sup>th</sup> August 2021.

Restricted

## CALIBRATION CERTIFICATE

Dimension EXL200 bearing serial number DE272658 at **IMPULSE DIAGNOSTICS, HAILAKANDI ROAD, MEHERPUR, SILCHAR**, Assam has been duly calibrated on 17<sup>th</sup> August 2021

**Final calibration results are as follows:**

### PHOTOMETER DARK CALIBRATION:

Reference : 9014.57 Hz  
Sample (outer on) : 8794.58 Hz  
Sample (outer off) : 8796.19 Hz

### LAMP CALIBRATION:

Low Calib level : 55.0%  
High Calib level : 68.2%

### PHOTOMETER

<u>Filters</u>	<u>System Check Wavelength</u>	<u>Acceptable Range</u>
293nm ----	1.22	+2.5
340nm ----	0.81	+1.5
383nm ----	0.70	+1.5
405nm ----	0.79	+1.5
452nm ----	0.69	+1.5
510nm ----	0.60	+1.5
540nm ----	0.49	+1.5
577nm ----	0.53	+1.5
600nm ----	0.53	+1.5
700nm ----	0.50	+1.5

### PHOTOMETER LAMP VOLTAGE:

Set at 24.00V calibrated by DVM

**PHOTOMETER ARM ALINGMENT:** set at -6                      Range: -3 to -9

## **CHK SYSTEM CHECK RESULTS:**

### **RESULTS FROM INSTRUMENT**

	<b><u>OBSERVED</u></b>	<b><u>ACCEPTABLE RANGE</u></b>
Reagent 1:	Mean: 396.62 SD : 0.46	Mean: 396±15 SD : 3.80
Reagent 2 :	Mean: 397.08 SD : 1.40	Mean: 396±15 SD : 3.80
Sampler :	Mean: 41.10 SD : 0.31	Mean: 39.4±2 SD : 1.6

### **TEMPERATURE CALIBRATION:**

Reagent : 5.0°C	Range: 2°C to 8°C
Cuvette : 37.0°C	Range: 37.0 +/- 0.2°C

The instrument is working satisfactorily, subsequent to Calibrations of the above parameters, and the Next Calibration is due on 16<sup>th</sup> February. 2022.

**Note:** Absorbance kit (CHK) LOT NO: GA1279 is an USFDA approved kit used in performing the system check in all Dimension systems. The carton value is a predetermined value for which the limits are defined in system check screen and operator guide of Dimension.

## **Siemens Healthcare Pvt Ltd.**

*Kamal Kr. Baishya*

Kamal Kumar Baishya  
Manager Customer -Service  
Silchar, Assam  
17-08-2021

**Performance Qualification for ADVIA CENTAUR CP**

With reference to the Annexure 2 and studies carried out in the Laboratory have determined that the analyzer meets all performance criteria and has passed Performance Qualification.

**The System is ready for specific usage.**

Protocol performed by: Siemens Ltd.

Signature : 

Name : Pinki Das

Designation : Application Service

Customer Authorization : Impulse Diagnostics

Signature : 

Name : J.J Purkayastha

Designation : Lab In-Charge

Date:

**Annexure 2.**

**ADVIA CENATUR Performance Evaluation.**

Following Procedure was Carried out as part of the Performance Qualification for Advia Centaur CP bearing serial No. ROB30006116 Installed in Impulse Diagnostics, Silchar:-

**1. Calibration of Assay**

Checked and found all calibrations within the acceptable CV limits and in range.  
See Print out Attached.

**2. Internal Quality Control Performance**

Three-Level Biorad Lyphocheck Immunoassays Control.  
Checked and found all level Controls to be within the acceptable SD limits.  
See print out Attached.

**3. Precision Study**

A Within Run Precision of 10 replicates were carried out for TSH, TT3, TT4 and CV % obtained are within the acceptable limit for the assay.

See print out attached.

**Operational Qualification for ADVIA CENTAUR CP**

With reference to the Installation Procedure and Checklist and the studies carried out in Impulse Diagnostics, Silchar, **ADVIA CENTAUR CP Serial No. ROB30006116** meets all criteria outlined for Operational Qualification

Exceptional conditions, if any, have been addressed.

a. The Flooring on which the analyzer has been placed is LEVEL.  Yes  No

**Temperature and Humidity**

b. Ambient Temperature Check Found Between 18 to 25 C  Yes  No

c. Humidity Found to be < 80 %  Yes  No

The Analyzer is ready for Performance Qualification

Protocol Performed By: Siemens Ltd.

Signature : *K Baishya*

Name : Mr. Kamal Kumar Baishya

Designation : Field Service Engineer

Customer Authorization: Impulse Diagnostics

Signature : *J.J Purkayastha*

Name : Mr. J.J Purkayastha

Designation : Lab In-Charge

**Installation Certificate**

This is to certify that the **ADVIA CENTAUR CP Immunoassay System**, Instrument Serial  
**ROB 30006116** has been successfully Installed and Commissioned at  
**Impulse Dagnostics, Silchar** as per the Installation Procedure & Checklist.

Siemens Ltd.

Name: Kamal Kumar Baishya

Designation: Field Service Engineer

Signature : *K Baishya*

Date:

Impulse Diagnostics

Name: *J.J Purkayastha*

Designation: Lab In-Charge

Signature:

Date:



**Installation Qualifications for ADVIA CENTAUR CP.**

Carried out all the Installation Steps as well as the Necessary Checks and Alignments of all Robotics were done as per Installation Procedure and Checklist. (See Annexure 1).

Checked the Dark Counts with & without cuvettes and obtained values acceptable.

Performed all due maintenance activities such as Automated Daily Cleaning, Automated System Prime and Probe Bubble detector calibration.

Handed over the Instrument for Operations Training & Qualifications.

Enclosed:

- a. Quality Certificate duly signed by the Siemens Plant Quality Assurance Manager.
- b. ISO 9001:2000 / ISO 13485 : 2003
- c. Declaration of Conformity.
- d. QA INSTRUMENT RELEASE APPROVAL.

For Siemens Ltd.

Name : Mr. Kamal Kumar Baishya

Designation : Field Service Engineer

Signature : 

Date :

For Impulse Diagnostics

Name : J.J Purkayastha

Designation : Lab In-Charge

Signature : 

Date :

- c. Checked the Reagent Probe Dispense test.
- d. Checked the Tip Tray Loading and Tip Pick up.
- e. Checked the aspirate probe.
- f. Checked the Acid and Base Reagent Addition.
- g. Checked Dark Count

9. Verification of Water Requirement

- a. CLSI Type II or higher Water Used:

FSE Signature : K Baishya

Name : Kamal Kumar Baishya

Date :



## Advia Centur CP

### Installation Procedure and Checklist – ADVIA CENTAUR CP.

Models @ Serial No : ADVIA CENTAUR CP

Instrument Sr # : ROB30006116

Customer Name : Impulse Diagnostics

Doctor / In-Charge : Jagat Jyoti Purkayastha

Address : Hailakandi Road, Meherpur

City : Silchar

Phone : 9435213188

1. Inspect Shipper for physical damage, then Uncrate.

- a. Physical Damage to shipper :  Yes  No
- b. Accessories as per packing List :  Yes  No

2. Environmental Conditions.

- a. Air Conditioned Environment Available :  Yes  No
- b. Room free of Rodents/ Insects/ Pests :  Yes  No
- c. Humidity is less than 80 % :  Yes  No



### Instrument Installation Acceptance Statement

Account Name: Impulse Diagnostic

City: Silchar State: Assam

Instrument Installed: 13/02/2020 S/N: DE272658

S/N: \_\_\_\_\_

S/N: \_\_\_\_\_

S/N: \_\_\_\_\_


Install Completion Date: 13/02/2020

**Customer:**

I understand and state that the installation of the Siemens Instrument(s) has/have been completed to my satisfaction, including training of laboratory personnel on the operation and maintenance of this Instrument(s).

I also state that the Instrument(s) is/are (1) operating in accordance with manufacturing specification and (2) the Instrument(s) and consumable(s) performance has/have been validated according to Siemens protocol.

Customer's Name: Impulse Diagnostics  
Print Name

Customer Signature:  Date: \_\_\_\_\_

Siemens CAS

CAS's Name: Da I monmi Iakai  
Print Name Date: \_\_\_\_\_

CAS Signature: \_\_\_\_\_

**Installation Procedure and Checklist – Dimension EXL200.**

Models @ Serial No : Dimension EXL200  
Instrument Sr # : DE272658  
Customer Name : Impulse Diagnostic  
Doctor / In-Charge : Dr. Dipayan Saha  
Address : Hailakandi, Meherpur  
  
City : Silchar  
Phone : 3482224542

1. Inspect Shipper for physical damage, then Uncrate.

- a. Physical Damage to shipper :  Yes  No  
b. Accessories as per packing List :  Yes  No

2. Environmental Conditions.

- a. Air Conditioned Environment Available :  Yes  No  
b. Room free of Rodents/ Insects/ Pests :  Yes  No  
c. Humidity is less than 80 % :  Yes  No





8. System Calibration and Inspection.

- a. Verified All Mechanical Configuration Adjustment of the Site  
and Back up in Disc   
(Instrument Calibration Diskette provided to the User Department)
- b. Checked the Thermal Operations of Reagent compartment and Thermal Chamber.
- c. Checked the Reagent area and Automatic Flex Loader
- d. Checked Sample area.
- e. Checked the Barcode reader.
- f. Checked the Lamp Calibration
- g. Checked the Photometer alignment and mAU Offset calibration.
- h. Calibrated the Cuvette and reagent temperature

9. System Preparation: System Check

Run the System check with CHK Reagent to check the performance of Sample Probe assembly, Reagent Probe 1 and 2 assembly, Photometer alignment.

Attached System check Printout attached



Alignment: print out attached

**Voltages:**

	Power OFF	Power ON	Power ON
G-H	_____ V (0-1V)	_____ ( 90-110V)	_____ (198-264V)
	_____ V (0-1V)	_____ (110-125V)	
H-N	_____ V (0-1V)	_____ ( 90-110V)	_____ (198-264V)
	_____ V (0-1V)	_____ (110-125V)	
G-N	_____ V (0-1V)	_____ (Max 0.5)	_____ (< 2V)
	_____ V (0-1V)	_____ (< 2 V)	

**Gaps:**

Syringe

<u>(Glass to plunger)</u>	<u>Observed</u>	<u>Adjusted</u>	<u>Specification</u>
Sample Metering	_____	_____	(.005" - .010")
Sample Flush	_____	_____	(.005" - .010")
Reagent 1 Metering	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
Reagent 1 Metering	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
IF HM Instrument Chemistry Wash	_____	_____	(.005" - .010")

Cuvette Manufacture Solenoids

			<u>Specification</u>
Top Seal	_____	_____	(.010" *)
Cuvette Form	_____	_____	(0.020" - 0.045"**)
U-Sea 1	_____	_____	(0.020" ± 0.010"*)
	_____	_____	

**Installation Qualifications for Dimension EXL200.**

Carried out all the Installation Steps as well as the Necessary Checks and Alignments of all Robotics were done for Dimension EXL200 located in Impulse Diagnostic, Silchar bearing serial No. DE272658 as per Installation Procedure and Checklist.

Checked the System check report and the obtained values acceptable. (Printout attached)

Performed all due maintenance activities such as Daily, Weekly Maintenance, Automated System Prime.

Handed over the Instrument for Operations Training & Qualifications.

For Siemens Ltd.

Name : Mr. Kamal Kumar Baishya

Designation : Field Service Engineer

Signature : 

Date :

**Installation Certificate**

This is to certify that the Dimension EXL200 Clinical Chemistry **System**, Instrument Serial DE272658 has been successfully Installed and Commissioned in Impulse Diagnostic, Meherpur, Silchar, Assam as per the Installation Procedure & Checklist.

Siemens Ltd.

Impulse Diagnostic

Name: Kamal Kumar Baishya

Name: Jantu Das

Designation: Field Service Engineer

Designation: Technician In-charge

Signature : 

Signature: 

Date:

Date:

**Operational Qualification for Dimension EXL200**

Operator Qualification: Conducted the operator Training on the following Topic

- 1, Component Overview
- a, System Components
  - b, Keyboard, Touchscreen and Alert Keys
- 2, Calibration:
- a, Calibrated Linear Method and verify Enzyme Method
- 3, Maintenance:
- a, Daily, Weekly, Monthly Maintenance and Periodic Maintenance
  - b, Replace Cuvette Nozzle Diaphragm
  - c, Replace Cuvette film cartridge
  - d, Replace Reagent and Sample Probe tip.
- 4, Sample Processing
- a, Running sample using Sample cup, primary tube.
  - b, Manual dilution and respond to system needs.
  - c, Determine Segment status and delete Segment.
  - d, Review use of System status key
  - e, Edit samples including adding and deleting tests, rerunning test and deleting Samples.
  - f, Review use of these keys:  
Pause, Exit, Shift, Reset, Backspace, Backslash, Run and Arrow keys.
  - g, Review Interpreting test report messages.
- 5, Customization
- a, Set Password
  - b, Enable automatic cartridge removal, and automatic repeat for panic
  - c, Enable Automatic Flex reagent cartridge testing.

- d, Select Plumbing configuration
- e, Define panel
- f, Define QC Status and QC ranges
- g, Review method QC results from method review screen.
- h, Enter Panic values
- i, Configure barcode choice
- j, Touchscreen and alert features
- k, Configure QC Alerts, QC ranges and QC Panels.
- l, Define calibration products and calibration alert.
- m, Setting calibration.

## 6, Problem Resolution

ACTIVITY	Reference
Review response to alarm ON/OFF	Operator's Guide, <i>Introducing</i> ,
Review response to error messages using ALT M	Operator's Guide, <i>Introducing</i>
Review using Reset key to clear error messages	Operator's Guide, <i>Introducing</i>
Review active and resident error logs; including More Info and See Minor functions	Operator's Guide, <i>Troubleshooting</i>
Review troubleshooting, emphasizing system check troubleshooting guidelines	Operator's Guide, <i>Troubleshooting</i>
Review icons and using CTL Help to respond to icons	Operator's Guide, <i>Appendix</i>

REAGENT INVENTORY SUMMARY

Attached printout

**THIS INVENTORY SUMMARY CONSISTS OF ALL METHODS  
CALIBRATED AND INTENDED FOR USE AT TIME OF INSTALL.**

Moumi Lakai

CAS

[Signature]

CUSTOMER



**Dimension EXL200 Performance Evaluation, Annexure1**

Following Procedure was Carried out as part of the Performance Qualification:-

**1. Calibration of Assay**

Checked and found all calibrations within the acceptable CV limits and in range.  
See Print out Attached.

**2. Internal Quality Control Performance**

Two Level Biorad Lyphocheck Assayed Chemistry Control.  
Checked and found all level Controls to be within the acceptable limits.  
See print out Attached.

**3. Precision Study**

A Within Run Precision of replicates were carried out and CV % obtained are within the acceptable limit for the assay as stated in the IFU.

See print out attached.

**4, Linearity Study**

Linearity study done for AST, BUN, Creatinine, GGT, Glucose.

See Print out attached.

Performance Qualification for Dimension EXL200

With reference to the Annexure 1 and studies carried out in the Laboratory have determined that the analyzer meets all performance criteria and has passed Performance Qualification.

**The System is ready for specific usage.**

Protocol performed by : Siemens Ltd.

Signature : *Monmi Lakai*

Name : Da I Monmi lakai

Designation : Application Service

Customer Authorization : Impulse Diagnostic

Signature : *Jantu Das*

Name : Jantu Das

Designation : Technician In-charge

Date:



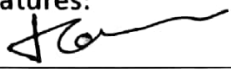
The DIMENSION EXL 200 s/n DE 2726 58  
has been successfully installed as of 18<sup>th</sup> Feb 2020.  
(Date)

Customer Accepted: Impulse Diagnostix  
Date: 18 Feb 2020  
Title: IO OS PR

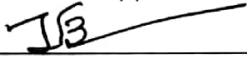
## 1 Installation Completion Checklist

- EM Checklist attached (Obtain FSR signature)
- Calibration and QC Summary Sheets attached
- Inventory Summary Sheet attached
- Method Calibration / Verification / IMT Reports attached
- Rating Form completed and attached
- Training Checklists completed and attached
- Installation Completion Statement
- Software Revision Level 10.3.1.

Signatures:

  
\_\_\_\_\_

Clinical Applications Specialist

  
\_\_\_\_\_

Field Service Representative

Feb 18 2020

date

Feb 18 2020

date

**NOTICE TO INSTALLERS****This package contains new revisions****PLEASE READ PRIOR TO INSTALLATION**

### Instrument Installation Acceptance Statement

Account Name: Impulse Diagnostic

City: Silchar State: Assam

Instrument Installed: 13/02/2020 S/N: DE272658

S/N: \_\_\_\_\_

S/N: \_\_\_\_\_

S/N: \_\_\_\_\_

Install Completion Date: 13/02/2020

**Customer:**

I understand and state that the installation of the Siemens Instrument(s) has/have been completed to my satisfaction, including training of laboratory personnel on the operation and maintenance of this Instrument(s).

I also state that the Instrument(s) is/are (1) operating in accordance with manufacturing specification and (2) the Instrument(s) and consumable(s) performance has/have been validated according to Siemens protocol.

Customer's Name: Impulse Diagnostics  
Print Name

Customer Signature: [Signature] Date: 18/2/20

Siemens CAS

CAS's Name: Da I monmi lakai  
Print Name Date: 18/2/20

CAS Signature: \_\_\_\_\_

**Installation Procedure and Checklist – Dimension EXL200.**

Models @ Serial No : Dimension EXL200  
Instrument Sr # : DE272658  
Customer Name : Impulse Diagnostic  
Doctor / In-Charge : Dr. Dipayan Saha  
Address : Hailakandi, Meherpur  
  
City : Silchar  
Phone : 3482224542

1. Inspect Shipper for physical damage, then Uncrate.

- a. Physical Damage to shipper :  Yes  No  
b. Accessories as per packing List :  Yes  No

2. Environmental Conditions.

- a. Air Conditioned Environment Available :  Yes  No  
b. Room free of Rodents/ Insects/ Pests :  Yes  No  
c. Humidity is less than 80 % :  Yes  No



**8. System Calibration and Inspection.**

- a. Verified All Mechanical Configuration Adjustment of the Site  
and Back up in Disc   
(Instrument Calibration Diskette provided to the User Department)
- b. Checked the Thermal Operations of Reagent compartment and Thermal Chamber.
- c. Checked the Reagent area and Automatic Flex Loader
- d. Checked Sample area.
- e. Checked the Barcode reader.
- f. Checked the Lamp Calibration
- g. Checked the Photometer alignment and mAU Offset calibration.
- h. Calibrated the Cuvette and reagent temperature

**9. System Preparation: System Check**

Run the System check with CHK Reagent to check the performance of Sample Probe assembly, Reagent Probe 1 and 2 assembly, Photometer alignment.

Attached System check Printout attached

Alignment: print out attached

**Voltages:**

	Power OFF	Power ON	Power ON
G-H	_____ V (0-1V)	_____ ( 90-110V)	_____ (198-264V)
	_____ V (0-1V)	_____ (110-125V)	
H-N	_____ V (0-1V)	_____ ( 90-110V)	_____ (198-264V)
	_____ V (0-1V)	_____ (110-125V)	
G-N	_____ V (0-1V)	_____ (Max 0.5)	_____ (< 2V)
	_____ V (0-1V)	_____ (< 2 V)	

**Gaps:**

Syringe

<u>(Glass to plunger)</u>	<u>Observed</u>	<u>Adjusted</u>	<u>Specification</u>
Sample Metering	_____	_____	(.005" - .010")
Sample Flush	_____	_____	(.005" - .010")
Reagent 1 Metering	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
Reagent 1 Metering	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
Reagent 1 Flush	_____	_____	(.005" - .010")
IF HM Instrument Chemistry Wash	_____	_____	(.005" - .010")

Cuvette Manufacture Solenoids

	<u>Observed</u>	<u>Adjusted</u>	<u>Specification</u>
Top Seal	_____	_____	(.010" *)
Cuvette Form	_____	_____	(0.020" - 0.045"**)
U-Seal	_____	_____	(0.020" ± 0.010"**)
	_____	_____	

**Installation Qualifications for Dimension EXL200.**

Carried out all the Installation Steps as well as the Necessary Checks and Alignments of all Robotics were done for Dimension EXL200 located in Impulse Diagnostic, Silchar bearing serial No. DE272658 as per Installation Procedure and Checklist.

Checked the System check report and the obtained values acceptable. (Printout attached)

Performed all due maintenance activities such as Daily, Weekly Maintenance, Automated System Prime.

Handed over the Instrument for Operations Training & Qualifications.

For Siemens Ltd.

Name : Mr. Kamal Kumar Baishya

Designation : Field Service Engineer

Signature : *K Baishya*

Date : 19/02/20



**Installation Certificate**

This is to certify that the Dimension EXL200 Clinical Chemistry **System**, Instrument Serial DE272658 has been successfully Installed and Commissioned in Impulse Diagnostic, Meherpur, Silchar, Assam as per the Installation Procedure & Checklist.

Siemens Ltd.

Impulse Diagnostic

Name: Kamal Kumar Baishya

Name: Jantu Das

Designation: Field Service Engineer

Designation: Technician In-charge

Signature : *K Baishya*

Signature: *Jantu Das,*

Date: *18/02/20*

Date: *18/02/20*

**Operational Qualification for Dimension EXL200**

Operator Qualification: Conducted the operator Training on the following Topic

- 1, Component Overview 
  - a, System Components
  - b, Keyboard, Touchscreen and Alert Keys
- 2, Calibration: 
  - a, Calibrated Linear Method and verify Enzyme Method
- 3, Maintenance: 
  - a, Daily, Weekly, Monthly Maintenance and Periodic Maintenance
  - b, Replace Cuvette Nozzle Diaphragm
  - c, Replace Cuvette film cartridge
  - d, Replace Reagent and Sample Probe tip.
- 4, Sample Processing 
  - a, Running sample using Sample cup, primary tube.
  - b, Manual dilution and respond to system needs.
  - c, Determine Segment status and delete Segment.
  - d, Review use of System status key
  - e, Edit samples including adding and deleting tests, rerunning test and deleting Samples.
  - f, Review use of these keys:  
Pause, Exit, Shift, Reset, Backspace, Backslash, Run and Arrow keys.
  - g, Review Interpreting test report messages.
- 5, Customization 
  - a, Set Password
  - b, Enable automatic cartridge removal, and automatic repeat for panic
  - c, Enable Automatic Flex reagent cartridge testing.

- d, Select Plumbing configuration
- e, Define panel
- f, Define QC Status and QC ranges
- g, Review method QC results from method review screen.
- h, Enter Panic values
- i, Configure barcode choice
- j, Touchscreen and alert features
- k, Configure QC Alerts, QC ranges and QC Panels.
- l, Define calibration products and calibration alert.
- m, Setting calibration.

## 6, Problem Resolution

ACTIVITY	Reference
Review response to alarm ON/OFF	Operator's Guide, <i>Introducing</i> ,
Review response to error messages using ALT M	Operator's Guide, <i>Introducing</i>
Review using Reset key to clear error messages	Operator's Guide, <i>Introducing</i>
Review active and resident error logs; including More Info and See Minor functions	Operator's Guide, <i>Troubleshooting</i>
Review troubleshooting, emphasizing system check troubleshooting guidelines	Operator's Guide, <i>Troubleshooting</i>
Review icons and using CTL Help to respond to icons	Operator's Guide, <i>Appendix</i>

REAGENT INVENTORY SUMMARY

Attached printout

**THIS INVENTORY SUMMARY CONSISTS OF ALL METHODS  
CALIBRATED AND INTENDED FOR USE AT TIME OF INSTALL.**

Moumi Lakari

CAS

[Signature]

CUSTOMER

**Dimension EXL200 Performance Evaluation, Annexure1**

Following Procedure was Carried out as part of the Performance Qualification:-

**1. Calibration of Assay**

Checked and found all calibrations within the acceptable CV limits and in range.

See Print out Attached.

**2. Internal Quality Control Performance**

Two Level Biorad Lyphocheck Assayed Chemistry Control.

Checked and found all level Controls to be within the acceptable limits.

See print out Attached.

**3. Precision Study**

A Within Run Precision of replicates were carried out and CV % obtained are within the acceptable limit for the assay as stated in the IFU.

See print out attached.

**4. Linearity Study**

Linearity study done for AST, BUN, Creatinine, GGT, Glucose.

See Print out attached.

**Performance Qualification for Dimension EXL200**

With reference to the Annexure 1 and studies carried out in the Laboratory have determined that the analyzer meets all performance criteria and has passed Performance Qualification.

**The System is ready for specific usage.**

Protocol performed by : Siemens Ltd.

Signature : *Monmi Lakai*

Name : Da I Monmi lakai

Designation : Application Service

Customer Authorization : Impulse Diagnostic

Signature : *Jantu Das*

Name : Jantu Das

Designation : Technician In-charge

Date: *18/02/20*