hai there we had launched a xc7z020-1clg484 based board where my fpga device is not detected in vivado

i had checked the cable installations and device installations in vivado they are properly installed even i had reinstalled them still my device is not detecting it is showing error as

ERROR: [Labtools 27-2269] No devices detected on target localhost:3121/xilinx\_tcf/Xilinx/00001b3102bf01.  
Check cable connectivity and that the target board is powered up then  
use the disconnect\_hw\_server and connect\_hw\_server to re-register this hardware target.  
ERROR: [Common 17-39] 'refresh\_hw\_target' failed due to earlier errors.

where on hardware my device is showing

tck-3.3v

tms-3.3v

tdi-3.3v

tdo-3.3v

in default mode

where as when i am trying to connect through jtag platform cable usb 2 i am getting

tck-0.02

tms-0.01

tdi-0.01

tdo-3.22v

i dont know what is the problem here i am attaching the excel showing the voltage i had supplied to banks

i had gone through voltage measurements using multimeter on hardware where all are showing proper voltages to the banks

can anyone please help me resolve this issue regarding jtag

i had also tried to connect the board through jtag using impact ise 14.7 where i got this errors

Welcome to iMPACT

iMPACT Version: 14.7

// \*\*\* BATCH CMD : setMode -bs

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// \*\*\* BATCH CMD : setMode -bs

// \*\*\* BATCH CMD : setMode -bs

GUI --- Auto connect to cable...

// \*\*\* BATCH CMD : setCable -port auto

INFO:iMPACT - Digilent Plugin: Plugin Version: 2.4.4

INFO:iMPACT - Digilent Plugin: no JTAG device was found.

AutoDetecting cable. Please wait.

\*\*\* WARNING \*\*\*: When port is set to auto detect mode, cable speed is set to default 6 MHz regardless of explicit arguments supplied for setting the baud rates

PROGRESS\_START - Starting Operation.

Connecting to cable (Usb Port - USB21).

Checking cable driver.

Driver file xusb\_xp2.sys found.

Driver version: src=2301, dest=2301.

Driver windrvr6.sys version = 10.2.1.0. WinDriver v10.21 Jungo (c) 1997 - 2010 Build Date: Aug 31 2010 x86\_64 64bit SYS 14:14:44, version = 1021.

Cable PID = 0008.

Max current requested during enumeration is 300 mA.

Type = 0x0005.

write (count, cmdBuffer, dataBuffer) failed C0000004.

Cable Type = 3, Revision = 0.

Setting cable speed to 6 MHz.

Cable connection established.

Firmware version = 2301.

File version of C:/Xilinx/14.7/ISE\_DS/ISE/data/xusb\_xp2.hex = 2401.

Firmware hex file version = 2401.

Downloading C:/Xilinx/14.7/ISE\_DS/ISE/data/xusb\_xp2.hex.

Downloaded firmware version = 2401.

PLD file version = 200Dh.

PLD version = 200Dh.

PROGRESS\_END - End Operation.

Elapsed time = 0 sec.

Type = 0x0005.

ESN option: 00001B3102BF01.

Attempting to identify devices in the boundary-scan chain configuration...

INFO:iMPACT - Current time: 8/24/2019 3:25:58 PM

// \*\*\* BATCH CMD : Identify -inferir

PROGRESS\_START - Starting Operation.

Identifying chain contents...'0': : Manufacturer's ID = Xilinx xc7z020, Version : 2

INFO:iMPACT:1777 -

Reading C:/Xilinx/14.7/ISE\_DS/ISE/zynq/data/xc7z020.bsd...

INFO:iMPACT - Using CseAdapterBSDevice

INFO:iMPACT:501 - '1': Added Device xc7z020 successfully.

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'1': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'2': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'3': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'4': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'5': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'6': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'7': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'8': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'9': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'10': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'11': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'12': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'13': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'14': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'15': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'16': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'17': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'18': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'19': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'20': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'21': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'22': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'23': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'24': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'25': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'26': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'27': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'28': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'29': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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'30': : Manufacturer's ID = Unknown

INFO:iMPACT:501 - '1': Added Device UNKNOWN successfully.

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INFO:iMPACT - iMPACT quit the Identify Chain because it detects there are

at least 30 'UNKNOWN' type devices on the chain.

Please check the hardware settings and retry!

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PROGRESS\_END - End Operation.

Elapsed time = 5 sec.

We had probed jtag signals on oscillator here we attach those signals please verify them











