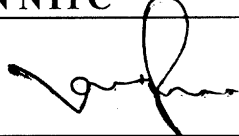
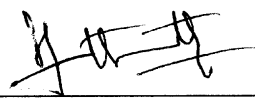
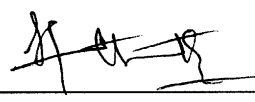


TECHNICAL SPECIFICATION FOR BOUGHT OUT ITEMS

Reference No.	Rev No.	Effective Date
TEP:NTPC: WIN 7 PC	01	01.02.2016
Title	TECHNICAL SPECIFICATION FOR INDUSTRIAL COMPUTER(WINDOWS 7)	
PROJECT	NTPC/ NON NTPC	
Prepared by	Varghese Paul	
Reviewed By	S.Parthasarathy	
Approved by	S.Parthasarathy	
Issued and Controlled by	Electronic Shop Embedded Systems BAP/BHEL/Ranipet-632 406	
Document Status	☐ Information Copy ☐ Controlled Copy * It is a control copy only if the mark against the control copy is other than black colour, otherwise it will be an uncontrolled copy. Check for current revision.	
Issued to:		Control Copy No:

TECHNICAL SPECIFICATION FOR CONTROL DESK PC

Reference No.	Revision No.	Effective Date
TEP:NTPC:WIN 7 PC	01	01.02.2016

Record of Revision

Rev. No.	Effective Date	Remarks
00	27.04.2012	Original Document
01	01.02.2016	Back Plane, Monitor ,RAM Spec. revised

SCOPE:

The scope of supply includes design, manufacture, testing, packing and delivery of the industrial grade computers (SBC) as per the following technical data. The bidder shall specifically confirm point –wise and enclosed ANNEXURE shall be submitted along with the offer.

TECHNICAL INFORMATION

- IPC Chassis with Passive Back Plane & Single Board Computer
- 24 inch LED color monitor as specified in the indent/ enquiry.
- 101 mechanical key board and Mouse.

TECHNICAL DATA FOR INDUSTRIAL PC

- A. 4U height rack mount chassis with
 - Versatile power supply option
 - Cooling fan with filter of sufficient capacity
 - ATX mother board option
- B. Passive Back Plane with 4 PCI slots Minimum.
- C. Minimum 400 W power supply (SMPS- Industrial version).
- D. SBC add-on processor card consisting of:
 - i. Intel Core 2 Duo Processor with 2GHz Minimum or Higher version.
 - ii. DDR2 RAM of 4GB minimum or Higher version.
 - iii. SATA interface to support minimum 4 nos of SATA drives
 - iv. 1x10/100/1000 Onboard Ethernet facility
 - v. 2 Serial port (should be possible to disable from BIOS)
 - vi. Four nos. of on board USB ports(Minimum 2 nos. front accessible)
 - vii. Necessary driver software and documents
- E. One SATA CD/ DVD ROM drive.
- F. One SATA HDD with 1 TB minimum
- G. Dummy covers for covering the CD-ROM bays shall be supplied loose, as they may be removed depending upon our requirement
- H. Windows 7 Professional 32 Bit (original Licensed version) in CD-ROM
- I. 101 mechanical key board- 1 no
- J. USB based Optical mouse -1 no
- K. 24”or above LED Color monitor of make Samsung/Philips/Acer/Any other reputed make.

NOTE:

1. Partion of Hard disk -25% of hard disk shall be partitioned as 'C' drive and remaining portion of Hard disk in the next D and E drives.
- 2 Windows 7 Professional OS (32 Bit)shall be loaded in the system and to be activated before offering for inspection.

ENVIRONMENTAL INFORMATION

Ambient conditions:

Ambient temperature: 6 °C to 50 °C

Humidity: Max 95% non-condensing

Location: Indoor

INSPECTION AND TESTING

The SBC shall be tested with inspection software like QAPLUS, AMIDIAG Etc which checks all the hardware inside the IPC.

The inspection will be carried out at supplier's works by BHEL/BHEL authorized inspector, based on the following documents.

- a. BHEL purchase order.
- b. BHEL Technical specification.

PACKING

The equipment shall be properly packed so as to prevent them from damage during transit/storage. The packing shall be weather proof and suitable for outdoor storage. Necessary provisions/marks for handling shall be provided. Each packing shall contain a packing slip showing all components, Instruction manual, name of the supplier, brief equipment description, purchase order number, relevant test certificate, serial number of the equipment and destination address.

COMPONENT CHECK LISTANNEXURE

Name of the Supplier :

Indent/ Enquiry Order No. & Date :

Quantity :

MAKE AND TYPE OF INDIVIDUL COMPONENT OF SYATEM*If it is given in the indent / enquiry specification

Component Description	Make	Type
Industrial PC Chassis		
CPU Card (Mother Board)		
*Additional Mother Board		
Processor		
Back Plane With no. of ISA/PCI Slots		
Power Supply (SMPS 1)		
*Power Supply (SMPS 2)		
Hard Disk Drive -1		
*Hard Disk Drive -1		
RAM		
Compact Disk Drive		
Key Board		
Mouse		
Operating System		
Monitor (Colour)		
Any other Item (Please Specify like RS485/ Duel Ethernet Card)		