

WEST CENTRAL RAILWAY

OFFICE OF THE
CONTROLLER OF STORES,
GM's OFFICE, 1ST FLOOR
INDIRA MARKET, JABALPUR

Tender Document

Tender No.WCR/S-HQ/MMIS/AMC/Depot Server. Dated- 14.02.2013

Material Management Department

Due Date- 02.04.2013

The Controller of Stores, West Central Railway, Jabalpur invites sealed Open Tender for and on behalf of the president of Union of India from the experienced contractors who fulfill the eligibility criteria for the work mentioned below. Tender Forms will be sold up to 11.00 hrs up to the opening mentioned against the tender notice and the tender box will be sealed at **12.30 hrs** and will be opened at **12.45 hrs.** on the same date.

Sr. No.	Name of Work	Place of Work	Approx Cost of Works (Rs.)	Earnest Money Deposit (Rs.)	Cost of Tender Document (Rs.)	Work duration
1	Annual Maintenance Contract for Depot Server and HQ (As per terms & conditions & enclosed specification attached)	Different locations with WCR as mentioned in para 2 of as per terms and conditions	2.55 Lakhs	5100.00	1000.00	ONE Years

1. Tender received by Registered post/Speed post will also be entertained provided that same should reach this office before 12.30 hrs. up to the due date of opening of the tender. However, the Railway will not be responsible for the postal delay in receiving tenders. The completed tender in sealed envelope indicating the tender notice no. and date of opening on top, should be addressed to Controller of Stores, West Central Railway, 1ST Floor, Core Building, GM's Office, Indira Market, Jabalpur(M.P.) Pin-482001.
2. The DD, FDR's for earnest money deposit & tender cost submitted by tenderer should not be of Gramin Bank it should be from Reserve Banks, nationalized/scheduled banks.
3. The DD, FDR's should be only in favour of **FA&CAO/W.C.Rly.Jabalpur and payable at Jabalpur.**

4. The tender documents duly filled can be dropped in the tender box in the office of **COS/WCR/Jabalpur** on the date above mentioned.
5. If the date of opening happens to be holidays, the tender shall be opened on the next working day.
6. Tenderers are requested to please submit the credentials along with the tender form. Documents submitted after opening of tender shall not be entertained.
7. Tender box will be kept ready at least 10 days before the last date of receipt of the tender.
8. Offer shall remain valid for a period of 120 days from the date of opening.
9. Tenderers are requested to note the revised General Conditions of Contract, which is circulated by Rly. Board vide L. No. 2003/ce-I/CT/4/PT.I dated 12.05.06 & dated 30.05.06.
10. Rate of AMC Charges should be quoted by the firm with above terms and conditions in the enclosed annexure.
11. Firm has to sign each page of tender condition.

Apart from the above information the following documents may be submitted along with the tender:-

- a) List of personnel, Organization. (b) List of works completed, organization for whom executed, approximate value of contract, date of award and date of completion.(c) List of works on hand indicating description of work, contract value, etc.
- b) Tender documents are also available on our website www.wcr.indianrailways.gov.in
In case if the tender document is down loaded from the website, it must accompany with cost of tender form as mentioned in the above table without cost of tender, the offer shall not be considered.
- c) Tenderers, who downloads the tender documents from the website, will be responsible for checking corrigendum , if any issued by the Railway, on the website from time to time and submit the tender only.

Sr. Material Manager/Elect.
West Central Railway
For and on behalf of the president of Union of India

D.A.: Tender of Agreement, Scope of the AMC Coverage, etc in Twenty Seven (27) Pages.

Tender Conditions for entering in Annual Maintenance Contract to Maintain the Depot and HQ Servers of MMIS

1.0 Terms of Conditions: -

- 1.1 The contract over & above to the special condition will be given by General Condition of Contract applicable of Railway for all works contract.
- 1.2 The duration of the agreement will be for **ONE** year.
- 1.3 Further extension, if required will be made on mutual agreement.
- 1.4 In the event of not being able to maintain the Servers/equipments satisfactory, their contract will be terminated at their risk and cost, without any further reference to them.

2.0 Place of work:

The site of the work is given as under as West Central Railway:-

Sr. No.	De pot Co de	Depot Name	Make	Machine No.	Model No.	Specification placed at
1	13	SMM/D/NKJ	HCL	5043A1069527	HCL HN 2700	Annexure-I
2	32	SMM/ELS/NKJ	HCL	2053A1034806	HCL AL 2700	Annexure-II
3	31	AMM/BOX-N/NKJ	HCL	2053A1034808	HCL AL 2700	Annexure-II
4	21	SMM/D/ET	HCL	2053A1034807	HCL AL 2700	Annexure-II
5	30	SMM/ELS/ET	HCL	5043A1069531	HCL AL 2700	Annexure-II
6	28	DY.CMM/CRWS/BPL	HCL	6043A1091852	HCL AL 2700	Annexure-II
7	50	SMM/GSD/BPL	HCL	3053A1055229	HCL AL 2700	Annexure-II
8	63	DY.CMM/WRS/KTT	HCL	5043A1069526	HCL HN 2700	Annexure-I
9	67	SMM/ELS/TKD	HCL	5043A1069532	HCL HN 2700	Annexure-I
10	—	HQ (HP DEPOT SERVER)	HP	IO11LK812C	HP Proliant ML 350	Annexure-III
11	—	HQ (HP WEB SERVER)	HP	INI5160DFS	HP Proliant ML 150	Annexure-IV
12	—	HQ (HCL APPLICATION SERVER)	HCL	5063A1152644	HCL 2700 BD-2	Annexure-V
13	—	HQ (HCL STAND BY APPLICATION SERVER)	HCL	5073A1485317	HCL 2700 SO	Annexure-VI

3.0 Technical Compatibility/Credentials:

Firm to be submitting Credentials with their offer in support of:

- A. Experience and expertise in IT Hardware and OS maintenance (above type servers of RM) in similar environment.
- B. Service Engineers with professional qualification, OEM trained and more than one year experience.
- C. List of personnel, with above qualifications and experience to be deployed in the AMC should be enclosed.

- D. Availability of critical spares of listed system and peripherals with their physical control.
- E. Firm should submit current performance statement of their Rs.2 lakhs p.a. and above value AMC customers. **Performance details of several AMC being done by firm.**
- F. Firm must provide details of service engineer, location wise with name, contact no. etc. (one page only).

4.0 Scope of the AMC Coverage:

- 4.1 All the server equipment given in the enclosed schedule & their operational accessories to the AMC systems will be covered.
- 4.2 The AMC will cover all equipments comprising Hardware components, System Software, OS Software, pre-loaded software packages, Antivirus managements etc.
- 4.3 Additional systems will be added at any point of time, within the upper limits.
- 4.4 **Fully ON-SITE coverage** is expected. In exceptional cases, if the Machine(s)/accessories are required to be taken to the premises of the firm, proper stand-by provision should be made by them, so that (DEPOT,HQ MODULE) MMIS WCR work does not suffer.
- 4.5 The WCR will not make any arrangement for transportation of defective Accessories, Equipment, etc, if required to be taken to premises of the firm for repairing and the same have to be arranged by the Firm at their cost.
- 4.6 Gate-pass for taking out the defective material(s) will be issued by Depots and COS officials.
- 4.7 Restoration work-of system will have to be done at the earliest opportunity including office holidays. Firm can request for special booking of Depot and HQ. staff on office closed days, for carrying out these activities.
- 4.8 Periodic cleaning of the exterior of the systems like fans, general dust accumulation, oily stains on Server, Cleaning of Server interior etc. This work has to be done with proper equipment like vacuum cleaners, brushes and safe chemicals etc. to be available with firm. Periodicity of these works will be with preventive attention schedule.
- 4.9 Virus Management: If there are any virus attacks in between the same will be rectified.
- 4.10 The scope of the work also includes installation of operating systems (viz. Windows, Unix, Linux etc.) in the servers.

5.0. FULLY COMPREHENSIVE:

- 5.1 The AMC will be of fully comprehensive coverage type. It will cover all services & spares required, except those specifically excluded to keep the systems in their best working condition.
- 5.2 All hardware items found defective shall be replaced free of cost by the firm.

- 5.3 All parts of the system will be included in the comprehensive coverage.
- 5.4 Any items, if excluded by the firm, must be clearly indicated but may not be agreed to by WCR. For such items, coverage rates linked to market prices must be separately quoted.
- 5.5 Repairable parts will be part of the comprehensive coverage.
- 5.6 All spare parts supplied, as part of AMC, should confirm to the OEM of the particular system.
- 5.7 Suitable OEM arrangements to be ensured for spares. All replacements of parts will have to be with equal or higher specifications.
- 5.8 Maintenance service shall consist of both preventive and corrective maintenance of all Equipment.

6.0 PREVENTIVE MAINTENANCE:

Preventive maintenance shall include:

- 6.1 Preventive maintenance shall include checking of general system (HW & SW) health and vacuum cleaning of interiors and exterior, fans, etc.
- 6.2 Preventive maintenance should be done at least every 1(one) month for all equipments to avoid failure of the same in advance..
- 6.3 The Schedule (day/timings and down time allowed) for such preventive maintenance will be decided in consultation with "Depot & HQ MMIS" cell authorities.
- 6.4 Completion Reports will include preventive schedule.

7.0. CORRECTIVE MAINTENANCE:

Corrective maintenance shall include

- 7.1 Rectification of faults in case of total failure of the system and its peripherals and equipments,
- 7.2 Rectification of any malfunctioning of the equipments and the System Software like Operating System Software.
- 7.3 Supply of all spare parts and replacement of defective parts.
- 7.4. Immediate standby arrangement, if equipment accessories to be taken at firm premises for repair/corrective action if any.

8.0 INFORMATION CHANNELS FOR FAULT REPORTING:

- 8.1 On-site Engineer's name, Phone nos./Fax no./mobile no./E-Mail address.
- 8.2 In case of faults reporting, firm should provide their hunting/emergency phone no. / mobile no. etc.
- 8.3 A sticker with above details is to be pasted on the system for information of users. Complaint no. registration/call logging must be provided by the firm during full working hours.

- 8.4 Formats of maintenance logs, reports and certificates for billing and payments will be formalized.
- 8.5 Complaints shall be reported to firm either over telephone or in writing in the format prescribed by firm to enable firm to take speedy corrective action.
- 8.6 Complaints shall be recorded in the Register maintained at Depots wise and DY.CMM/Elect. to enable firm to take speedy corrective action regarding any complaint.
- 8.7 The Register which will be used for detailing the nature of the complaints by the CUSTOMER must include provisions of logging in of the time of the complaint, time at which it was attended by the firm and the CUSTOMER's acknowledgement of timely and successful elimination of the problem.
- 8.8 Where the CUSTOMER has to contact firm at their offices at Jabalpur at the address set out above, either by telephone or by FAX, the one hours period (Response Time) shall deem to have begun from the time of dispatch of message and this timing shall also be certified by the firm Engineer present at all nine depot and at COS office Jabalpur.

9.0. DATA SAFETY:

- 9.1 Before undertaking major repairs, the firm should ensure safety of user data. If required, the firm should have suitable back-up arrangements. (e.g. imaging the HDD).**
- 9.2 To minimize the disruption of office work due to OS problem etc., firm should use disk partitioning and imaging tools to keep good working state image of the OS partitions, in fixed or removable media. These images should be used to quickly restore the system to working state. The firm should load back all the legal software packages available with user.
- 9.3 In addition to data safety firm should maintain secrecy of information while handling data of depot's servers.

10.0. HOURS OF SERVICE:

- 10.1 Firm shall provide required support services by way of actual maintenance by firm Engineers during the shift operation (09:30 hours to 18:00 hours).
- 10.2 Maintenance service shall be provided six days a week and keep the equipment in good and efficient working order during the contract period.
- 10.3 Maintenance service is normally not required on Sundays and Gazetted Holidays.
- 10.4 Occasionally, as needed, firms engineer will attend complaints at the 9 depots and COS office, Jabalpur beyond the stipulated duty hours, and on holidays/Sundays.

11.0. RESPONSE & REPORTING:

- 11.1 Any problem reported to the firm shall be responded by the firm within one hours of reporting and resolution time 4 hours(on same day) must be

arranged to make the system operational so that the "Depot & HQ module MMIS" work is not affected adversely.

12.0. CRITERIA FOR FAILURE CALCULATION AND CORRESPONDING PENALTY:

- 12.1 If the equipment is non- functional for more than four hours then a pro-rata penalty per day will be deducted minimum of which will be five times the amount for every day or part of the day on pro-rata basis. In case if a server is down then penalty will be charged cumulatively on and all the equipment which is idle because of server equipment downtime.
- 12.2 If Railway wants the service of firm Engineer outside the two shift Operations. The firm shall make available to the railway such services on mutually agreed terms.
- 12.3 Records of such delays will be maintained along with the date and time of reporting and attending a complaint and these will be endorsed by the attending Engineer from firm.
- 12.4 The downtime starts from the time of fault reporting and will stop at repair/stand by provision. Downtime registers to be maintained by depots and HQ for respective servers available with them.
- 12.5 Failure on the part of firm to provide maintenance support services as contemplated above shall entitle WCR to recover from firm extra cost that WCR may be put to both by way of computer time hired from outside agencies for performing its jobs and maintenance of computer hardware by another agency or as an in house effort.**
- 12.6 The amount recoverable from firm shall be determined by WCR who shall have the right to adjust such amount from any dues payable by any of the organization of the Indian Railways to firm, in the event of firm failure to settle WCR 's claims in this regard within a reasonable period.

13.0 OTHER TERMS AND CONDITIONS

- 13.1 The firm undertakes to keep ready at all times a group of higher level designated experts, who can be rushed to CUSTOMER as and when required.
- 13.2 Either party shall not assign or sublet its obligations under this agreement or any part there of without the other's written acceptance.
- 13.3 The Offer/Contract will be governed by the "General Condition of Contract" as applicable to WCR.
- 13.4 In case of any dispute, Controller of Stores decision will be final.

14.0 PAYMENT TERMS:

- 14.1 Bill passing officer will be AMM/WCR/JBP and bill paying officer will be FA&CAO/WCR/JBP.

- 14.2 Maintenance charges commence from the contract effective date and shall be payable the end of half yearly on prorata basis after adjusting all dues & penalties recoverable by WCR.
- 14.3 Payment will be done any after satisfactory maintenance of remarks certified by AMM/MMIS.

15.0 SECURITY DEPOSIT:

- 15.1 The Security Deposit / rate of recovery /mode of recovery shall be as under:
- (i) Security Deposit for the work will be 5% of the contract value.
 - (ii) The rate of recovery will be at the rate of 10% of the bill amount till the full security deposit is recovered,
 - (iii) Security Deposits will be recovered only from the running bills of the contract and no other mode of collecting SD such as SD in the form of instruments like BG, FD etc. shall be accepted towards Security deposits.
- 15.2 Security Deposit shall be returned to the contractor after the expiry of maintenance period and after passing the final bill based on no claim Certificate as certified by the competent authority. The Competent Authority shall normally be the authority who is competent to sign the contract. If this Competent Authority is of the rank lower than JA Grade, then a JA Grade Officer (concerned with the work) should issue the certificate. The certificate inter-alia, should mention that the work has been completed in all respects and that the contractor has fulfilled all the contractual obligations and that there is no due from the contractor to Railways against the contract concerned. Before releasing the SD, an unconditional and unequivocal no claim certificate from the contractor concerned should be obtained.
- 15.3 No interest will be payable upon the Security Deposit or amounts payable to the Contractor under the contract.

16.0 PERFORMANCE GUARANTEE:

- 16.1 The successful bidder should give a Performance Guarantee in the form of an irrevocable bank guarantee amounting to 5% of the contract value, in favour of FA & CAO West Central Railway/Associated finance officer.
- 16.2 The Performance Guarantee should be submitted by the successful bidder after the letter of acceptance has been issued, but before signing the agreement. The agreement should normally be signed within 15 days after issue of Letter of Acceptance and the Performance Guarantee should also be submitted within this time limit. This Guarantee should be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time of completion of work gets extended, the contractor shall get the validity of Performance Guarantee extended to cover such extended time for completion of work plus 60 days.
- 16.3 The Performance Guarantee shall be released after the physical completion of the work based on the completion certificate issued by the competent

authority stating that the contractor has completed the work in all respect satisfactorily. The security deposit, however, shall be released only after the expiry of maintenance period and after passing the final bill based on no claim certificate,

- 16.4 Wherever the contract is rescinded, the security deposit shall be forfeited and the Performance Guarantee shall be encashed and the balanced work shall be got done independently without risk and cost of the failed contractor. The failed contractor shall be debarred from participating in the tender for executing the balance work. If the failed contractor is a JV or a partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work either in his/her individual capacity or as, a partner of any other JV /partner ship firm.
- 16.5 The Engineer in charge shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not with-standing and or without prejudice to any other Provisions in the contract agreement) in the event of -
- (i) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer in charge may claim the full amount of the Performance Guarantee,
 - (ii) Failure by the contractor to pay President of India any amount due either is agreed by the contractor or determined under any of the clauses / conditions of the agreement, within 30 days of the services of notice to this effect by Engineer in charge.

17.0 TERMINATION OF CONTRACT:

- 17.1 In the event of firm conveying to CUSTOMER their desire to discontinue maintenance and arrangement of supply of spare parts for the server hardware under this contract, The firm shall give CUSTOMER at least three months prior notice of such discontinuance, during which period CUSTOMER or a third party nominated by CUSTOMER shall have right to raise orders for life time requirement of kits of parts and spare parts on terms and conditions to be mutually agreed upon by the parties.
- 17.2 The contract can be terminated by the railway administration by giving one Quarter prior notice.
- 17.3 **Addition/Deletion of equipments:-**
- a. Railway may add or remove any equipment from the maintenance contract and the charges of the same will be added or deleted on pro-rata basis.
 - b. Railway will have the right to shift servers with in its office premises are send to outside railway offices temporarily and permanently.

18.0 CARE OF EQUIPMENTS:

- 18.1 CUSTOMER shall give the firm full access to the equipment to enable to provide maintenance service and will make available to the firm an appropriate staff who is familiar with the CUSTOMER's programs and will

- provide suitable. Working space, facilities and suitable safe storage for maintenance of equipments and spare parts.
- 18.2 The CUSTOMER will take care of the equipment, house it in suitable Conditions and follow such instructions on these matters and observe instructions as given by firm from time to time.
- 18.3 Any need for alteration, attachment. Repair, adjustments and shifting of equipment will be intimated and made in consultation with firm.
- 18.4 No equipment or part there of shall be moved except by firm or with firm written consent.
- 18.5 The firm will be prepared to move the place of original installation into a different place or locations, if so desired by the customer provided 15 days written notice in advance is given in that behalf by the CUSTOMER.
- 18.6 All costs, charges and expenses in respect of moving the equipment or part thereof including costs, charges and expenses for dismantling, reinstallation, testing and commissioning shall be payable by the firm.

19.0 NOTICES:

All notices shall be writing in English language and. given at address at forth below or to any other address for which notice is subsequently given in writing. Controller of Stores, West central Railway, Core building, 1st floor, Indira Market, Jabalpur.

20.0 Rate of AMC Charges should be quoted by the firm with above terms and conditions in the enclosed annexure.

OEM or its authorize agent/dealer only quote this tender.

21.0 OEM i.e. HCL and HP or their authorized agent only to quote this tender as server are HP & HCL Make. Authorize agent to submit the authorization certificate of HP and HCL along with tender document else their offer will be passed over.

22.0 Servers are located at different location i.e. (Jabalpur, New Katni Junction, Itarsi, Bhopal, Kota and Tughlakabad.) and firm has to provide onsite maintenance of servers on these locations.

23.0 Firm has to sign each page of tender condition.

For Controller of Stores

Schedule of Rates for entering in Annual Maintenance Contract to Maintain the Depot Servers of MMIS

Sr. No.	Depot Code	Depot Name	Machine No.	Model No.	AMC CHARGES PER Server/Per year
1	13	SMM/D/NKJ	5043A1069527	HCL HN 2700	
2	32	SMM/ELS/NKJ	2053A1034806	HCL AL 2700	
3	31	AMM/BOX-N/NKJ	2053A1034808	HCL AL 2700	
4	21	SMM/D/ET	2053A1034807	HCL AL 2700	
5	30	SMM/ELS/ET	5043A1069531	HCL AL 2700	
6	28	DY.CMM/CRWS/BPL	6043A1091852	HCL AL 2700	
7	50	SMM/GSD/BPL	3053A1055229	HCL AL 2700	
8	63	DY.CMM/WRS/KTT	5043A1069526	HCL HN 2700	
9	67	SMM/ELS/TKD	5043A1069532	HCL HN 2700	
10	–	HQ (HP DEPOT SERVER)	IO11LK812C	HP Proliant ML 350	
11	–	HQ (HP WEB SERVER)	INI5160DFS	HP Proliant ML 150	
12	–	HQ (HCL APPLICATION SERVER)	5063A1152644	HCL 2700 BD-2	
13	–	HQ (HCL STAND BY APPLICATION SERVER)	5073A1485317	HCL 2700 SO	
Total AMC Charges for All 13 Servers per year					
In Words:-					

Signature Seal of the firm

Annexure-I

Specification of Infiniti Global Line 2700 HN Network Server

Tested and Approved with the following Novell products:

GroupWise(v6)	NetWare 5.1
NetWare 6	NetWare Enterprise Web Server(v3.6)
Novell BorderManager(v3.5)	Novell Distributed Print Services (NDPS)(v2.1)
Support Pack 2 for NetWare 6	Support Pack 5 for NetWare 5.1
eDirectory (v8.6)	iPrint/NDPS(v3.0)

Product Description

Infiniti Global Line 2700 HN is Dual Intel® Xeon™ 2.0 GHz CPU based server with the Intel® E7501 chipset. It features with Dual U320 SCSI, Dual Gigabit LAN and onboard VGA. It also has three 32bit/33 MHz PCI slot's, two 64Bit/100MHz PCI-X slot's, and one 64bit/133MHz PCI-X slot.

Test Configuration

Product/Model/Rev	Infiniti Global Line 2700 HN /2700 HN /Rev. 1.0
CD-ROM Drive	Samsung Electronics Co., LTD. SC-152L; ATAPI; Spin Rate 52x
CPU	2 Intel® Xeon™ DP; Cache Size 512 KB; 2 GHz
Hard Disk Drive	2 Seagate® ST318406LC; 18 GB; Ultra160 SCSI
Host Bus Adapter	Adaptec® AIC-7902W Integrated Ultra320 SCSI Host Bus Adapter
Video Adapter	Intel® Integrated 82801CA (ICH3-S); IDE
BIOS	ATI® Integrated Rage™ XL; 8 MB; SVGA
Bus Type	S7501HG0.86B.0020.P01.021206144
	3 32-bit/33MHz PCI
	3 PCI-X 64-bit/100MHz
	1 PCI-X 64-bit/133MHz
	1 Parallel Port
	2 Serial
	5 USB Ports
Computer Type	Pedestal
Floppy Type	1.44 MB
Mother Board Revision	A95718-304
RAM	2047 MB
System Test Kit Version	2

Product File Specifications

PSM Driver(s):

<u>File Name</u>	<u>Version</u>	<u>Size</u>	<u>Date</u>
ACPIDRV.PSM			33527 bytes
MPS14.PSM	V2.09		75048 bytes

Adapters and drivers used in testing

<u>Adapter</u>	<u>Driver Type</u>	<u>File Name</u>	<u>Date</u>	<u>Size</u>
Adaptec® AIC-7902W Integrated Ultra320 SCSI Host Bus Adapter		ADPU320.HAM	21-Aug-2002 04:47 PM	183012
Intel® Integrated 82801CA (ICH3-S)		IDEATA.HAM	19-Apr-2002 03:19 PM	37839
Intel® Integrated 82546EB	C HSM v1.11	CE1000.LAN	25-Sep-2002 11:02 AM	100327
Intel® PRO/100 S Server Adapter				

C HSM v1.11	CE100B.LAN	07-Jan-2002 05:18 AM	92633
Intel® PRO/1000 XT Server Adapter			
C HSM v1.11	CE1000.LAN	25-Sep-2002 11:02 AM	100327

<u>Adapter</u>	<u>Driver Type</u>	<u>File Name</u>	<u>Date</u>	<u>Size</u>	<u>NetWare Version</u>
Intel® Integrated 82540EM LAN	LAN Driver	CE1000.LAN	24-Jul-2003	115192	NetWare® 5.1
	LAN Driver	CE1000.LAN	10-Mar-2003	109718	NetWare® 6.5
Intel® Integrated 82544GC	LAN Driver	CE1000.LAN	10-Mar-2003	109718	NetWare® 6.5
	LAN Driver	CE1000.LAN	24-Jul-2003	115192	NetWare® 5.1
Intel® Intel® PRO/100 S Server Adapter	LAN Driver	CE100B.LAN	30-Sep-2003	101378	NetWare® 6.5, NetWare® 5.1
Adaptec AIC-7902W Integrated Ultra320 SCSI Host Bus Adapter	HBA Driver	ADPU320.HAM	25-Mar-2003	215038	NetWare® 6.5, NetWare® 5.1
Intel® Integrated 82801CA (ICH3-S)	HBA Driver	IDEATA.HAM	20-Nov-2003	76112	NetWare® 6.5, NetWare® 5.1

Annexure-III

Specification of HP Proliant ML 350 G2 Server. **Product Features 350ML**

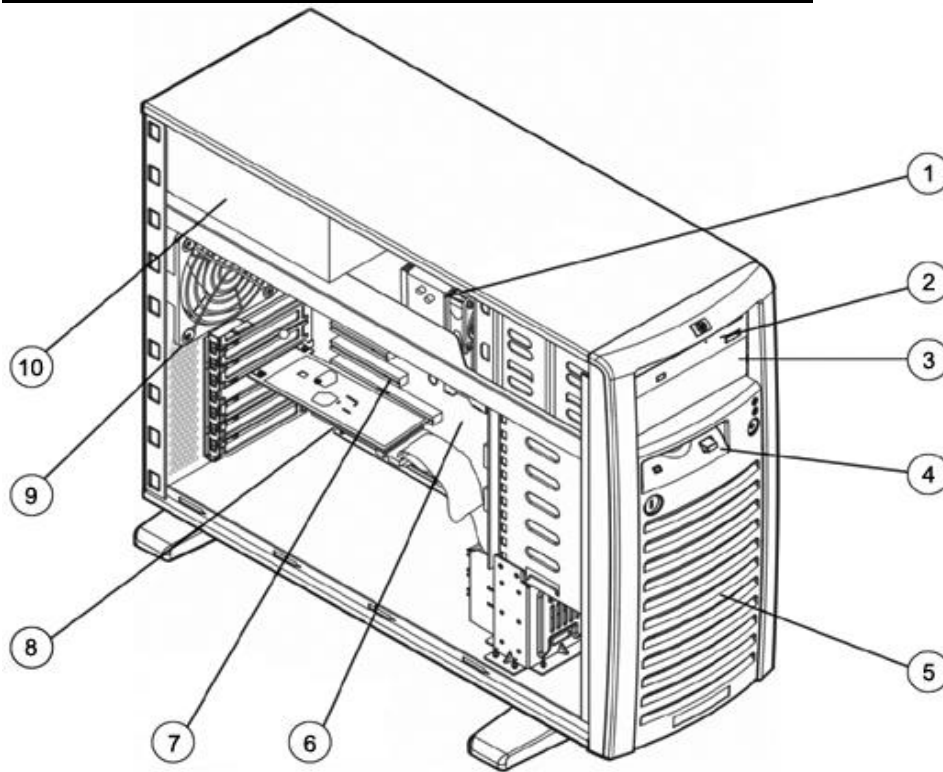
Feature	Specification		
Processor	<ul style="list-style-type: none">• Intel Pentium III 1.13 GHz FC-PGA2 (Flip Chip-Pin Grid Array) Processor• Intel Pentium III 1.26 GHz FC-PGA2 (Flip Chip-Pin Grid Array) Processor• Intel Pentium III 1.40 GHz FC-PGA2 (Flip Chip-Pin Grid Array) Processor		
Cache Memory	Integrated 512-KB level 2 ECC cache (full speed)		
Upgradeability	Upgradeable to dual processing		
Memory	Ships standard with 128 MB or 256 MB (depending on model) of PC133 MHz Registered ECC SRAM DIMM memory. Maximum memory capacity is 4.0 GB.		
Network Controller	Embedded Compaq NC3163 Fast Ethernet 10/100, single channel, NIC with Wake on Lan (WOL) and Pre-boot eXecution Environment (PXE) capabilities.		
Expansion Slots	6 - Total PCI I/O slots consisting of:		
Storage Controllers	Integrated Dual Channel, Wide Ultra3 SCSI based on Adaptec 7899W/7902 Ultra160/320 Controller.		
Storage	<ul style="list-style-type: none">• 1.44 MB diskette drive• 32x or 40x EIDE CD-ROM Drive (EIDE - Mstr)• 2 x 1/2 height bays or equivalent to 1 x full height bay (DLT is supported - takes up both 1/2 height bays)• 6 x 1' hot plug Wide Ultra3 SCSI drive drive cage		
Interfaces	<ul style="list-style-type: none">• Parallel: 1• Serial: 2• Pointing Device (Mouse): 1• Graphics: 1• Hot Plug Keyboard: 1• Network RJ-45: 1• External SCSI knockouts: 2• USB: 2 (Keyboard and Mouse support, only)		
Graphics	Integrated ATI Rage XL Video Controller with 8-MB of SDRAM video memory.		
Form Factor	Tower - ProLiant ML350 form factor, Rack - 5U		
Compaq Software	<table border="1"><tr><td data-bbox="399 1717 764 1854"><ul style="list-style-type: none">• Compaq Insight Manager</td><td data-bbox="764 1717 1516 1854">The comprehensive system management tool that monitors the operation of Compaq servers, and clients</td></tr></table>	<ul style="list-style-type: none">• Compaq Insight Manager	The comprehensive system management tool that monitors the operation of Compaq servers, and clients
<ul style="list-style-type: none">• Compaq Insight Manager	The comprehensive system management tool that monitors the operation of Compaq servers, and clients		

	<ul style="list-style-type: none"> • Compaq Insight Manager XE 	Compaq Insight Manager XE leverages the power of the Internet to provide web-based systems management, and plays a key role in Compaq's strategy to simplify IT management. Compaq Insight Manager XE reduces systems management cost, improves operational efficiency and effectiveness, and minimizes systems downtime.
	<ul style="list-style-type: none"> • Array Configuration Utility (ACU) with Smart Array Controllers 	Same easy to use yet powerful GUI configuration utility and easy to navigate wizards for all Smart Array Controllers
Industry Standard Compliance	<ul style="list-style-type: none"> • ACPI 2.0 Compliant • PCI 2.2 Compliant • WOL Support • Microsoft Logo certifications 	
Manageability	<ul style="list-style-type: none"> • Compaq Insight Manager • Compaq Insight Manager XE • Compaq Remote Lights-Out Edition (optional) • Compaq ProLiant R-BSU (ROM-Based Setup Utility) • Automatic Server Recovery • Drive Parameter Tracking (with SmartStart Array Controller) • Dynamic Sector Repairing (with SmartStart Array Controller) • Pre-Failure Warranty (covers processors, as well as hard drives and memory) 	
Security	<ul style="list-style-type: none"> • Power-on password • Setup password • Diskette boot control • Parallel and serial interface control • Disk configuration lock • Power switch security 	
Power Supply	350W Hot-Pluggable Power Supply (standard) and an optional 350W Hot-Pluggable Redundant Power Supply (N+1) is available. CE- Mark Compliant, PFC (Power Factor Correction), 100 to 240 VAC	
OS Support	<ul style="list-style-type: none"> • Microsoft Windows NT Server 4.0 • Microsoft BackOffice Small Business Server 2000 • Microsoft Windows 2000 Server and Advanced Server • Novell NetWare 5.1 • Novell NetWare Small Business Suite 5.1 • Novell NetWare Small Business Server 6 • SCO OpenServer 5.0.6a • SCO UnixWare 7.1 	

	<ul style="list-style-type: none"> • SCO UnixWare 7.1.1 • Caldera Openlinux 8 • IBM OS/2 Warp Family for e-business and Warp Server for e-business Convenience Pack • LINUX (Red Hat, SuSE., Caldera Open Linux Server) 1
Service and Support	<p>Compaq Services provides a wide range of service offerings, including a three-year, limited warranty fully supported by a worldwide network of resellers and service providers, lifetime toll-free 7 x 24 hardware technical phone support and Pre-Failure Warranty coverage of hard drives, memory and processors. Disaster recovery services are available through partnership with Comdisco. 2</p>
<p>Note 1: For a more complete and up-to-date listing of supported OS's and versions, please visit our OS Support Matrix at:</p>	

Annexure-IV

Specification of HP Proliant ML150 G2 Server



1. Intel® Xeon processor with 1 or 2MB level 2 cache
2. 48x CD-ROM
3. One Removable Media Bay (1.6")
4. 1.44 MB Diskette Drive
5. Six Drive Bays
6. Main System Board
7. Six PCI Slots (PCI-X or PCI-Express)
8. SCSI or SATA Adapter, depending upon model
9. System Fan
10. Power Supply

What's New

Intel Xeon 2.8 GHz, 3.0 GHz, or 3.2 GHz processors with 1MB L2 cache; or 2.8 GHz, 3.0 GHz, or 3.2 GHz processors with

2MB L2 cache, dual processor capability.

800MHz Front Side Bus

PC2700 DDR SDRAM memory (expandable to 8GB)

PCI-X and PCI-Express expansion slots (one legacy PCI slot)

At A Glance

Processors:

Intel® Xeon 2.8 GHz, 3.0 GHz, or 3.2 GHz processors with 1MB level 2 cache or 2.8 GHz, 3.0 GHz, or 3.2 GHz processors with 2MB level 2 cache standard (dual processor capability). Processors include support for Hyper-Threading and Extended Memory 64 Technology (EM64T)

Intel® E7320 chipset

800MHz Front Side Bus

Memory:

512 MB of PC2700 DDR SDRAM standard (expandable to 8 GB)

Storage Controller:

Slot-based Single Channel Ultra320 SCSI Adapter or 4 port SATA Adapter (depending upon model)

Internal Drive Support:

Support for up to 6 Ultra320 SCSI hard drives

Support for up to 6 SATA hard drives with optional 6 Port SATA RAID Controller

Internal U320 SCSI storage capacity of up to 880GB (6 x 146GB U320 SCSI drives)

Internal SATA storage capacity of up to 2TB (4 x 500GB SATA drives) or up to 3TB (6 X 500GB SATA drives) with optional 6 Port SATA RAID Controller

Supports the HP External Backup Solution by Seagate for simple external backup

Network Controller:

Single PCI-Express Gigabit NIC (embedded)

Expansion Slots:

Six expansion slots: four 64-bit/66-MHz PCI-X (3 available), one x4 PCI-Express, and one 32-bit/33MHz PCI

USB Ports:

Three USB 2.0 ports:- (2 rear, 1 Internal)

Redundancy:

600W Non-Hot Plug Power Supply

Form Factor:

An entry level, (5U) tower server that delivers a balance of performance, manageability, and expandability at an aggressive price

Management:

Optional HP ProLiant ML150 G2 Lights-Out 100 Remote Management Card allows you to manage server remotely

Deployment/Serviceability:

Tool-free chassis entry and component access

Additional Features:

Backed by HP's world class service and support, the ProLiant ML150 G2 offers expertise and capabilities from a best-in-class brand

With room for two Xeon processors, six I/O adapter cards, six hard disk drives, and four memory slots, the ProLiant ML150 G2 expands with your business

Integrated ATI Rage XL with 8MB SDRAM video

Warranty

Protected by HP Services and a worldwide network of resellers and service providers. One-year Next Business Day, onsite

limited global warranty. Certain restrictions and exclusions apply. Pre-Failure Notification on processors, memory, and SCSI hard drives.

Processor

NOTE: One of the following depending on Model

Intel Xeon Processor 3.2 GHz/800 -1MB L2

Intel Xeon Processor 3.0 GHz/800 -1MB L2

Intel Xeon Processor 2.8 GHz/800 -1MB L2

Intel Xeon Processor 3.2 GHz/800 -2MB L2

Intel Xeon Processor 3.0 GHz/800 -2MB L2

Intel Xeon Processor 2.8 GHz/800 -2MB L2

Cache Memory Integrated 1MB or 2MB level 2 cache (Depending on model)

Upgradeability Upgradeable to dual processing

Chipset Intel® E7320 Chipset with 800MHz Front Side Bus

Memory Type PC2700 DDR SDRAM (333MHz)

Standard 512 MB

Maximum 8 GB

Network Controller Broadcom 5721 PCI-Express Gigabit NIC (embedded) 10/100/1000 WOL (Wake on LAN)

Expansion Slots I/O (6 Total, 5 Available) PCI Voltage:

64-bit/66MHz PCI-X 4 (3 available) 3.3 volts

x 4 PCI-Express 1 3.3 volts

32-bit/33MHz PCI 1.5 volts

Storage Controller

NOTE: One of the following depending on

Model

Single Channel Ultra320 SCSI Adapter in a PCI slot(SCSI Models)

4 port SATA Adapter in a PCI slot (SATA Model)

Storage Diskette Drive 1.44 MB Diskette Drive

Optical Drive 48x IDE (ATAPI) CD-ROM Drive

Hard Drives 36-GB 15,000 rpm hard drive included in non-hot plug SCSI models only

Maximum Internal

Storage

SCSI Models 880GB (6 x 146GB SCSI drives)

SATA Models 3TB (6 X 500GB SATA drives) with optional 6 Port SATA RAID Controller or

2TB (4 x 500GB SATA drives) with standard controller

Marvell® Yukon™-EC 88E8050 PCI Express™ Gigabit Ethernet Controller

Intel® Integrated 82541 PI

LSI Logic® LSI53C1030 Ultra 320 SCSI

Intel® Integrated 82801ER (ICH5)

Annexure- VI

Specification of

Infiniti Global Line 2700 SO Network Server

YES CERTIFIED with the following products:

Operating Systems:

SUSE® LINUX Enterprise Server 10 for AMD64® & Intel® EM64T®

Product Description

This is a Intel 5000V chipset based system supporting Dual Intel Xeon Dual core processor. It has Onboard ATI ES1000 VGA controller & onboard Intel 82563EB Dual Gigabit ethernet controllers. It has also 2 PCI-X 64bit/100MHz slots, 1 PCI 32bit/33MHz slot and 2 PCI-Express x8 slots.

Tested Configuration:

Computer Type:	Pedestal
Mother Board Revision:	601
BIOS:	62
CPU:	2 Intel® Dual-Core Xeon® Processor 5080 3.73 GHz
RAM:	16 GB
Bus Type:	2 64-bit/133MHz PCI-X 2 PCI Express X8 32-bit/33MHz PCI 4 USB Ports 2 Serial
Video Adapter:	ATI® Integrated RN50
Host Bus Adapter:	LSI Logic® LSI SAS 1064 , Serial SCSI (SAS) Intel® Intel® Integrated 6321ESB ICH , IDE
Hard Disk Drive:	Maxtor® D540X-4G 4G160J8 , IDE 2 Seagate® Barracuda 7200.7 ST380013AS , Serial SCSI (SAS) Western Digital® WD360GD - 36GB , Serial ATA (SATA)
CD/DVD:	TSST SD-M1912 , IDE
Floppy Type:	NONE
Test Kit:	System Certification Kit 6.0.8

Config Notes

Referenced Bulletins

[85781](#)

Adapters and Drivers

LSI Logic® LSI SAS 1064

Driver Type: HBA Driver
File Date: 03-Jul-2006

File Name: mptsas.ko
File Size: 51224

Checksum: db2bfdc085b28a0c5ccef3a211662e70

2 Intel® Intel(R) PRO/1000 EB Network Connection with I/O Acceleration

Driver Type: LAN Driver

File Date: 03-Jul-2006

Checksum: b8763550baa5a7ddfb4ca13ea9c2d598

File Name: e1000.ko

File Size: 176232

Intel® Intel® Integrated 6321ESB ICH

Driver Type: HBA Driver

File Date: 03-Jul-2006

Checksum: 250d6e327066b6456062599ca682b364

File Name: ahci.ko

File Size: 41616

Driver Type: HBA Driver

File Date: 03-Jul-2006

Checksum: ea91034cbd6a119d9c3419b61a5deb53

File Name: piix.ko

File Size: 34336

WEST CENTRAL RAILWAY
TENDER FORM (FIRST SHEET)

Tender No.dated

Name of Work:

To
The President of India,
Acting through the Controller of Stores
West central Railway, Jabalpur.

1. We M/s.....,.....have read the various conditions to tender attached here to and agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for a period of **120** days from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our "Earnest Money". I/We offer to do the work for West Central Railway, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within stipulated time.

2. I/We also hereby agree to abide by the General Conditions of Contract corrected up to printed advance correction slips corrected up to the date of tender opening and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/ Specifications and the Central Railway Works Hand Book Part III corrected upto printed/advance correction slip corrected up to the date of tender opening sanitary Works Hand Book corrected upto printed/advance correction slip corrected up to the date of tender opening Schedule of Rates of WCR corrected upto printed/advance correction slip corrected up to the date of tender opening for the present contract.

3. A sum of **Rs** _____ **(as mentioned in NIT)** is herewith forwarded as Earnest money. The full value the earnest Money shall stand forfeited without prejudice to and other right or remedies in case my/our Tender is accepted and if :-
(a) I/We do not execute the contract documents within 15 days after issue of letter of acceptance by the Railways, and (b) I/We do not commence the work within 30 days after receipt of orders to that effect.

4. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.

Signature of Witnesses:.....
(1)

Signature Tenderer(s).....
Date:

Address of the Tenderer(s):

CONTRACTOR'S AGREEMENT

I offer to do the work at the rates entered on the schedule of rates on the reverse, which I have signed, and I understand that no fixed quantity of work is given to me to do that in starting work I am only given a place to work in or to deposit materials on, and that I have no claim to more than one unit of work as entered in the Schedule of Rates. I agree that all works done and materials delivered shall be subject to the approval of the Engineer in Charge, who may; reject and decline to pay for whatever may be in his opinion inferior or defective of either and I agree that the Standard specifications contained in the Works Hand Book Part III, corrected upto the date of opening of tender and Sanitary Works Hand Book corrected upto the date of tender opening on so far as they are not over-ruled by items of this agreement, shall be deemed part of this agreement.

I agree that no work under this work order shall be assigned or sublet without the previous written approval of the Engineer.

I agree that my work may be stopped at anytime by the Engineer on his giving me or my agent on the works seven days notice on writing and I agree that the measurement of my works shall be made by the Engineer at any time appointed by him writing subsequent to the expiry of the said notice and Measurement shall be made by him at the said time whether I am present or not and that on payment for work done and approved materials delivered at site of work as ascertained by the said measurement, I shall have no further claim against the Railway and I agree that any dispute arise on matters connected with this agreement, the same shall be referred to a person to be nominated in this behalf by the PCE West Central Railway, Jabalpur for the time being of the Railway, whose decision in writing shall be final and binding on both parties.

I agree that any claim I have to make shall be made in writing within seven days of date of measurement taken by the Engineer as aforesaid and that any claims in respect of such measurement made more than seven days after taking of such measurement shall be deemed to have waived by me.

I agree to indemnify the Railway against any claims which may be made under Workmen's Compensation Act 1923.

WITNESS

Name:

Address:

CONTRACTOR

Name:

Address:

Note:-If the agreement is for a work for which a special act of the Legislature exist, e.g. the Indian Mines Act the agreement should include a clause indemnifying the Railway against all claim arising of provision of such Act.