



# **All-India Institute of Medical Sciences Ansari Nagar, New Delhi-29.**

## **(STORES SECTION (DO))**

**Dated: 29.09.2015**

**Ref. No.33/Stores (DO)/NMR/PAC/2015-16/FSC**

**Subject:** Purchase of items of up-gradation of Operating software Platform (including necessary hardware as required for the same) for the existing 3T Achieva MRI System for department of NMR at AIIMS, New Delhi-29 on proprietary basis- **Inviting comments thereon.**

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The Institute is in the process to purchase items of “**up-gradation of Operating software Platform (including necessary hardware as required for the same) for the existing 3T Achieva MRI System** for Department of NMR at AIIMS, New Delhi-29 from M/s.Philips Medical System, The Netherlands on proprietary basis. The proposal submitted by M/s.Philips Medical System, The Netherlands and related documents with PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **Ref. No.33/Stores (DO)/NMR/PAC/2015-16/FSC**. The comments should be received by office of Sr. Stores Officer, Stores Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before **21.10.2015 upto 12.30 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**SR. STORES OFFICER**

**Encl: Related documents enclosed.**

**Technical Specification for the Up-gradation to the latest state-of-the-art operating software platform (including necessary Hardware as required for the same) for the existing 3T Achieva MRI system on Turn-key basis for Department of NMR, AIIMS, New Delhi**

**Requirements:**

To upgrade the existing 3T Achieva MRI system to the latest state-of-the-art operating software platform (including necessary Hardware as required for the same) which would have all latest pulse sequences/ applications including post-processing packages.

The manufacturer/ bidder must quote the latest state-of-the-art operating software platform (R5 or latest) for the existing 3.0 T MRI (ACHIEVA 3.0 Tesla multi-transmit, M/s. Philips), approved by FDA/CE/ or better certifying authority, along with existing licenses for MR acquisition and post-processing packages in the multi-transmit platform. This up-grade should not hamper any of the existing capabilities in acquisition and post-processing available with the scanner for both the MRI and MRS applications of all organs and coils. In addition the vendor should provide the following new capabilities of this upgrade.

1. The software upgrade should facilitate simplified parameter editor, increased automation and smart conflict management, Smart Select (extended to analog coils), Selective archiving for better control of archiving & export, combined accession numbers for improved scan efficiency for procedure based billing. The software should enable AutoSPAIR, software controlled SPAIR delay time for consistent fat suppression, Patient specific safety protocols with SAR/PNS management, MultiTransmit 4D support for robust cardiac applications. The system would provide increased patient DB image bulk storage capacity to  $\geq 200$ GB.
2. The vendor should provide DIXON for body applications for routine clinical diagnosis (with access to 4 image types from a single 3D sequence: water only, fat only, in phase and out of phase). DIXON sequences should be capable of abdominal imaging in combination with the SENSE XL Torso coil. The vendor should provide the Recon Excel option.

*N. A. Gales*  
*APB*  
*Unnikrishnan*  
*Winder*  
*Meenakshi*  
*Ramesh Sarda*  
*Rajesh Sharma*

12. The up-grade should not remove any of the existing capabilities (acquisition and post-processing) pertaining to all MRI and MRS sequences that are in use for various organs and coils. The vendor should comply that this up-grade will be compatible for all the existing coils. The vendor should not state that the latest up-grade of the soft-ware will not work for the existing coils and application packages. It is their responsibility to make all applications compatible and functional.

13. Warranty period for this up-grade should be for 5 years. And any updates coming out during this period should be provided during the warranty period.

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Raja Shams

ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI - 110 029

PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE

Item/Type/Model No. required along with *Upgradation of Operating Software platform (including Hardware as required for the same) for existing 3T Achieva MRI System.*  
specification  
Is the item a spare part attachment or accessory for an existing equipment *- Upgradation*

Name of the manufacturers/Supplier of the item proposed by the indenter.

*M/s Philips Healthcare  
Philips Medical Systems  
Nederland B.V.  
Boschdijk 525, 5621  
JA EINDHOVEN  
THE NETHERLANDS*

Are they sole manufacturers/sold distributors of the item

*NO.*

Is there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged.

If the answer is yes, why the same can't be procured: Demanding Officer should bring out comparative functional advantage/cost effectiveness of the recommended item from those offered by other.

*MRI 3T Achieva 3.0TIX  
was procured from the above vendor.*

What were the efforts made to locate alternative source of supply or use other substitutes.

Why open/limited tender can't be resorted to, for locating alternative source.

*Proposed upgradation has been launched by the above vendor only.*

Are the proprietary items certifying that the rates are reasonable or not.

*Yes provided.*

Any other justification for procuring item from single source.

*The main equipment and accessories were procured from the above vendor.*

*(Signature)*  
Signature of Indenter  
Dated: 17/09/2015  
(Designation of Indenter)

*(Signature)*  
N. A. Jallu  
(- COUNTER SIGNED)  
H. O. D

I certify that the item at Sr. No.1 above is required to be procured on single tender basis as the source of is definitely known/the specified brand proposed was advantages in meeting our functional requirements nited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(our whichever is not applicable)

# PHILIPS

Philips Healthcare

Ref.: IS/SS/R5/3TMRI/P  
Date: 10.09.2015

The Director,  
All India Institute of Medical Sciences  
Ansari Nagar  
New Delhi- 110029

Sub.: Final Offer for "R5 upgrade for the existing Philips Achieva 3 Tesla MRI Scanner" installed in  
Dept. of NMR

Dear Sir,

We hereby submit the Final Offer for "R5 Upgrade for the existing Philips Achieva 3 Tesla MRI Scanner" installed in Dept. of NMR for your kind consideration. This upgrade is going to improve the existing functionality of the scanner. We would like to state that m-Dixon HD is commercially not available yet and shall be supplied as and when available.

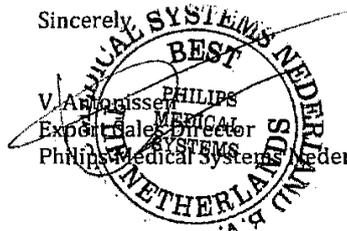
Please note that the Guarantee/Warranty of the offered equipment and accessories is for five years from the date of installation.

Please feel free to contact us for any further clarifications/information.

We look forward to your esteemed order.

Thanking you and assuring you of our best attention always, we remain

Sincerely,

  
V. Anugisset  
Export Sales Director  
Philips Medical Systems Nederland B.V.

Philips Medical Systems Nederland B.V.  
Boschdijk 525, 5621 JG Eindhoven.  
Phone: +31 40 27 91111  
Fax: +31 40 27 88028  
[www.philips.com/healthcare](http://www.philips.com/healthcare)

Post office address:  
P.O. Box 80014  
5600 JJ Eindhoven  
Commercial Register Chamber of  
Commerce Eindhoven no. 17060498

## FINAL PROPOSAL

(AIIMS New Delhi – Achieva 3T Software platform upgrade to R5)

Achieva 3.0T R5  
Upgrades R1, R2 ,R3 to R5

Sl. N. Qty. Description

1 1 Upgrade R5 for R3.2

R5 prepares your MR scanner to support a new generation of fast and consistent clinical diagnostic tools, based on personalized, patient-centered imaging. The upgrade to R5 will provide a new software platform for consistency, quality, speed and new MR applications. R5 is a prerequisite for several optional clinical solutions for head, neck, spine, MSK and body imaging, including new coils. In addition, R5 brings important improvements to the scanner GUI for better control and usability throughout the MR exam. These include:

- A harmonized user interface with new planscan environment, simplified parameter editor, increased automation and smart conflict management
- Smart Select extended to analog coils, including HST coil for Multiva
- Selective archiving for better control of archiving & export
- Combined accession numbers for improved scan efficiency for procedure based billing
- AutoSPAIR, software controlled SPAIR delay time for consistent fat suppression
- Increased patient DB image bulk storage capacity to >= 200GB
- Patient specific safety protocols with SAR/PNS management
- MultiTransmit 4D support for Achieva 3.0T TX systems, for robust cardiac
- Recent Microsoft Windows® OS with IPv6 support.

The upgrade will include latest host/recon computers. In case the host computer and/or reconstructor is replaced as part of this upgrade, the existing host computer and/or reconstructor shall be returned to Philips.

*Note: 1.5T systems with Multinuclei will lose Multinuclei functionality as a result of upgrading to R5.*

2 1 mDIXON Body Specialist

mDIXON produces 4 image types from a single 3D sequence: water only, fat only, in phase and out of phase. mDIXON can be used for abdominal imaging on Achieva systems in combination with the SENSE XL Torso coil, and on Ingenia in combination with the dS Torso coil/dS WholeBody coil. Water only images provide improved fat suppression over large field of views when compared to more conventional spectral fatsat techniques. mDIXON is designed with an unrestricted echo-time approach to provide more freedom in the optimization of scan times and SNR. For Achieva systems the Recon Excel option is a prerequisite. Note: This option requires >= R3.

3 1 **3T MN Specialist**

Multi-Nuclei Spectroscopy Specialist 3.0T provides a broadband multi-nuclei spectroscopy, imaging and proton decoupling package for clinical whole body use. It features an integrated  $^{31}\text{P}$  spectroscopy capability and is technically prepared for other nuclei. The package provides PlanScan on multiple surveys with free angulations. Preparations are performed at the proton frequency and first and second order shimming are optimized according to anatomy. Spectroscopic data planning, acquisition, storage and retrieval are integrated into standard imaging procedures. Preset procedures ensure easy operation. SpectroView supports data processing (including spectroscopic data) and display. The Proton Decoupling package is integrated in the Spectroscopy software. In routine phosphorous measurements, the Quadrature Body coil is used for decoupling, contributing significantly to spectral resolution. Combining the decoupling sequences with low power proton radiation enables maximum Nuclear Overhauser Enhancement.

Key features:

- Dedicated spectrometer hardware including broadband solid state amplifier covering from 10 to 130 MHz and 140 mm multi-purpose  $^{31}\text{P}$  loop coil
- Compatible with 1st and 2nd order shimming
- Preset procedures and fully automated sequence optimization
- Single volume spectroscopy
- Multi-voxel spectroscopy
- Dynamic spectroscopy

4 1 **Upgr to ASL Neuro Specialist**

Upgrade to ASL Neuro Specialist enables non-contrast brain perfusion imaging. It relies on the highly sensitive pseudo-continuous labeling technique (pCASL) providing high SNR and contrast, and allowing whole brain coverage with isotropic resolution. Color coded ASL maps with quantification bar can be visualized in the MR console viewing environment or on Intellispace Portal. Prerequisite: Upgrade to ASL Neuro Specialist requires that ASL Specialist is already present on the system.

5 1 **FiberTrak Spec Extension**

FiberTrak Specialist Extension package allows:

- Diffusion imaging with up to 128 b-vectors and 16 b-values
- Input for very high definition fiber tracking in the brain or spine.

6 1 **StarQuant**

Provides single breathhold, multi-echo, ECG-triggered acquisitions to provide  $\text{T2}^*$ ,  $\text{R2}^*$ ,  $\text{T2}$  and  $\text{R2}$  maps for assessment of myocardial tissue characteristics.

7 1 **MultiVaneXD**

MultiVane XD is an enhanced Multivane technique for Multi-slice TSE and for Multi-slice FFE techniques, suitable for all anatomies. It provides an enhanced Multivane motion control algorithm especially suited for gross motion. Combinable with SENSE parallel imaging in any direction allowing for short scantimes.

8 1 **mDIXON TSE Specialist**

mDIXON TSE specialist enables:

- A fast and sharp 2-point DIXON technology for TSE sequences.
- Robust fat-free TSE imaging over large FOVs and challenging anatomies such as Head/Neck, Spine and MSK.
- Four contrasts (Water, Fat, In-phase and Out-phases simultaneously in 1 scan).
- Scans times and resolutions comparable to conventional fat sat techniques.

9 1 **SWI Specialist**

The SWI specialist package enables a SWIp sequence offering:

- 3D high resolution and high contrast susceptibility weighted imaging of the brain
- High SNR thanks to a multi-echo technology
- Enhanced contrast between tissues presenting susceptibility differences such as venous blood products or mineral deposits (e.g. iron or calcium) thanks to the utilization of MR phase information
- Visualization of phase maps to further help diagnosis.

10 1 **mDIXON Body Fat Quant Spec**

mDIXON Body Fat Quant specialist produces quantitative fat fraction maps in a single breath-hold, covering the whole liver. It is based on a 3D mDIXON sequence with multiple echoes, correcting for T2\* decay and employing a multi-peak fat model. Next to the fat fraction maps, water, fat, In-phase, out-phase and T2\*/R2\* relaxation maps can be produced. Fat fraction maps and T2\* relaxation maps can be visualized in color with quantification bar, in the MR console viewing environment or on Intellispace Portal. Note: requires mDIXON Body Specialist as a pre-requisite.

**Following items will be modified/added in the system to upgrade it to R5 Platform:**

Hardware	HOST Z420 32GB + Axxon MOD
Hardware	USB cable BH - OCD
Hardware	Cable BH-X80 - BEB-X2
Hardware	Loopback BEB-X2

Hardware EXT. Cable USB A - USB A  
Hardware SET COLLECT PARTS CDAS+  
Hardware HP Diag USB stick  
Hardware Service key HOST Z420 CDAS  
Hardware USB STORAGE DEVICE 32GB  
Hardware Mounting material

**Recon EXCEL contains**

Hardware HE RECON Z420 32GB CDAS MOD  
Hardware DVI cable FLA/RLA-X3 - FL/RL-X5  
SET COLLECT PARTS RECONEXCEL  
Hardware noLIC  
Hardware HP Diag USB stick  
Hardware Service key RECON Z420 CDAS  
Hardware Mounting material

**Software components**

software BOLD SPECIALIST  
software ASL SPECIALIST  
software FIBERTRAK SPECIALIST  
software mDIXON Body Specialist  
software 3T MN Specialist  
software mDIXON TSE Specialist  
software StarQuant  
software MultiVaneXD  
software SWI Specialist  
software mDIXON Body Fat Quant Spec  
software R5 software & Key

<b>Total Price for the above items (with 5 years warranty)</b>	<b>USD 275,000/- (US Dollar Two Hundred Seventy Five Thousand Only)</b>
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**Note:**

1. Customs duty and Clearance to be borne by AIIMS, New Delhi
2. Warranty for the all items supplied is for 5 years from the date of I-note released by the Institute.

Yours faithfully,  
**Philips Medical Systems Nederland B.V.**



**Vincent Antonissen**  
Program Director International Business  
Philips Healthcare

# PHILIPS

Philips Healthcare

Ref.: IS/SS/R5/3TMRI/P

Date.: 14.08.2015

**The Director,**  
All India Institute of Medical Sciences  
Ansari Nagar  
New Delhi- 110029

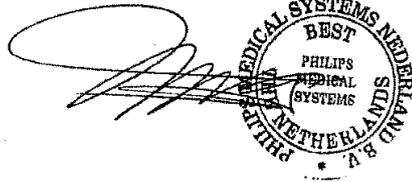
Sub.: Proprietary certificate for R5 Upgrade for existing Achieva 3T MRI system

Sir,

The 'R5 Upgrade for the existing Achieva 3T scanner installed in the Dept of NMR, AIIMS is proprietary item of Philips Medical Systems

Thanking you and assuring you of our best attention always.

for Philips Medical Systems Nederland B.V.



**JAN WEG**  
Export Sales Manager  
Global Commercial Operations  
Philips Medical Systems Nederland B.V.

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# PHILIPS

Philips Healthcare

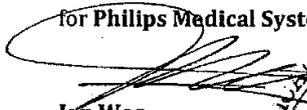
Ref: IS/SS/R5/3TMRI/P  
Dated: 14.08.2015

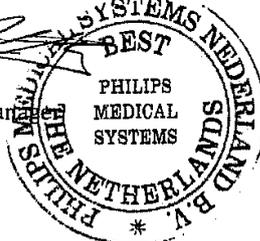
**The Director**  
All India Institute of Medical Sciences  
Ansari Nagar  
New Delhi -110029

## Undertaking

We hereby CERTIFY that we have not offered/supplied the proposed item to any other Government organization in India at a price lower than the price quoted for the R5 upgrade for the existing Philips Achieva 3.0Tesla MRI Scanner installed in NMR department.

for Philips Medical Systems Nederland B.V.

  
**Jan Weg**  
Indent Business Manager  
Philips Healthcare



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Commerce Eindhoven no. 17060498

# PHILIPS

Philips Healthcare

Eindhoven, August 14<sup>th</sup>, 2015

**The Director,**  
All India Institute of Medical Sciences  
Ansari Nagar  
New Delhi- 110029

**Sub. : Authorization Letter**

**Ref. :** Proposal for R5 Upgrade for the existing Philips Achieva 3 Tesla MRI Scanner installed in Dept. of NMR

As per the above date agreed by PMSN BV (Philips Medical Systems Nederland B.V.) as the PRINCIPAL and PIL (Philips India Limited) as the DOCUMENT PROCESSOR for Governmental Requests for Quotations,

PMSN BV appoints PIL as the entity that may sign on its behalf the following documents, according to the tender requirement and only in view of timely submittal for the above mentioned tender:

- Proposal for R5 upgrade for existing Philips Achieva 3Tesla MRI Scanner installed in Dept. of NMR
- Annexures / Supporting Documents as per tender requirement on Indian Non-judicial Stamp Paper.

The persons that are authorized are:

Mr. Ajit Sharma (Director Govt Business – Philips India Ltd)  
Dr. Anshumaan Yadava (Sr. Manager Govt Business – Philips India Ltd)

Above are employees of Philips India Limited at 9-B, DLF Cyber City, DLF Phase-3, Gurgaon - 122002, India

Sincerely,

**JAN WEG**  
Export Sales Manager  
Global Commercial Operations  
Philips Medical Systems Nederland B.V.

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