

NO.	Item	Purchaser's Specifications	Quantity	Statement of Compliance (Bidder's Offered Item & Specification)
1	PERALATAN DIAGNOSTIC CENTRE			
1	Magentic Resonance Imager		1	Unit
	1,5 Tesla	MAGNET		
		Field strength	1.5Tesla, Superconducting	
		Bore diameter	60cm	
		Helium	Zero boil-off cryogenes	
		Patient Aperture Flare	105 cm	
		Shimming	Active shimming and dynamic shimming on patient allows excellent patient specific 1st order homogeneity adjustments.	
		EXAMINATION TABLE		
		Table design	Express fully detachable table, helps improve safety, exam efficiency, and improve patient comfort	
			1. Laser alignment land-marking for axial and sagittal reference planes	
			2. In-bore lighting and ventilation	
			3. Two-way In-bore Intercom system	
		Patient table drive	Automated, power driven vertical & longitudinal	
		Scannable range	195 cm	
		Scanning option	Head-first or feet first	
		GRADIENT SYSTEM		
		Gradient amplitude	33 mT/m	
		Gradient Slew Rate	120 T/m/s	
		FOV (x-y-z)	50 cm x 50 cm x 50 cm in all x, y, z directions (Iso-Voxel)	
		RF SYSTEM		
		Location of the ADC	Analog to Digital Converter (ADC) located in the magnet enclosures completely isolated from the external sources of noise	
		Transmission of the digitized signal	Via Optical Fiber cables (OpTix) to minimize interference from external random noise and thereby improve the SNR	
		Simultaneous channels / receiver	16 Independent channels / receiver with OpTix Digital transmission	
		Sampling rate	80 MHz	
		RF COIL		
		Head	1 Unit Head T/R Coil	
		Head Neck Spine	1 Unit HNS Coil	
		Integrated Body Coil	1 Unit Body Coil Embedded in the Gantry	
		Body Array	1 Unit Body Coil	
		Shoulder Coil	1 Unit Shoulder Coil	
		Knee	1 Unit Knee Coil	
		Foot Ankle	1 Unit Foot Ankle Coil	
		Extremity Coil	1 Unit Flex Coil	
		Breast Coil	1 Unit Breast Coil	
		HOST COMPUTER AND RECONSTRUCTION ENGINE		
		Operating System	Scientific Linux	
		Host CPU	Intel Xeon Quadcore Processor	
		HDD	2 x 512 GB	
		Memory	32 GB	
		Console Monitor	High-Res High-Contrast LCD monitor 24.1 inch	
		Image Storage	400,000 FFT/s 256 x 256	
		Recon Engine	Intel Quad Core Processor	
		Recon Engine Hard Disk	400 GB	
		Recon Engine Memory	48 GB	
		Recon Speed	28,000 FFTs/sec 256 x 256	

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		2D MERGE, 3D Dual Echo, ACGD PLUS, ARC, ASSET, ASSET Plus, Blood Suppression, BRAVO, Cine, Diffusion Weighted EPI, Echo Planar Imaging, Fast Gradient Echo, Fast Spin Echo & FLAIR, FastCine, FLAIR Echo Planar, Imaging, 3D Fast Recovery FSE, FSE-XL, iDrive, iDrive Pro, Inline Visualization, LAVA, Multi-Phase (variable delays), Modality Worklist Connect Pro, Performed Procedure Step, Phase Contrast Vascular Imaging, Time of Flight Vascular Imaging, E3D Time of Flight, Smart Prep, SmartPrep 2000 Upgrade, SPECIAL, SSFSE, SSFSE, MRCP, SSFSE-XL MRCP3, T1 Breathhold, T2 Breathhold, Three Plane Localizer, Ultrashort TR, Proactive Service, ReadyBrain, Flow Analysis, BrainStat, 3D MERGE, LAVA-XV, FT-MRA, Cube		
		COMPREHENSIVE TOOLS FOR ADULT AND PEDIATRIC		
		Comprehensive Neuro Applications One-touch Automated Neuro Exam - Ready Brain Fast Brain Exam Acoustic Noise Reduction Technology – ART 2D Imaging Motion Correction Technique 3D Imaging Motion Correction Technique Parallel Imaging - ARC (k-space Domain) and ASSET (image Domain) Functional MRI (fMRI) BOLD imaging 2D Spin Echo T1 MEMP, gray/white matter optimized in Brain 2D Fast Spin Echo/Fast Recovery Fast Spin Echo - T1, T1 FLAIR, T2, T2 FLAIR, PD and STIR 2D Single Shot Fast Spin Echo - T2, T2 ASPIR 2D/3D Time of Flight high resolution non-contrast angiography 2D/3D Phase Contrast high resolution non-contrast angiography 2D Phase Contrast Cine CSF flow study with Flow Analysis software 2D/3D MERGE for better definition of gray/white matter in spine Brain Perfusion Dynamic Susceptibility Contrast (DSC)		
		Flow Analysis - Allows flow quantification in vasculature 3D Non-Contrast Brain Perfusion with Colored CBF map Quantitative Non-contrast Brain Perfusion with Colored CBF map BrainSTAT - Automatically generates parametric maps for neuro Blood Flow, Blood Volume, Mean Transit Time, and Time to Peak signal intensity Enhanced DWI - Multi b values, Smart NEX, additional diffusion mode including 3 in 1 & Tetrahedral FOCUS DWI/DTI - High resolution small FOV DWI ideal for Spine, Orbits and Brain stem Diffusion Tensor Imaging (DTI) up to 150 different diffusion directions DTI post-processing including colored functional maps and Tractography Proton MR Spectroscopy - Single Voxel, 2D & 3D CSI Multi Voxel 3D CUBE – FSE based volumetric acquisition contrasts include T1, T2, PD, T2 FLAIR 3D CUBE Double Inversion Recovery (DIR) Imaging, Improved visualisation white matter disease conspicuity 3D FIESTA/FIESTA-C for high resolution intracranial nerve imaging, IAC 3D BRAVO - Sub-millimeter volumetric T1w acquisition excellence for gray/white matter differentiation 3D SWAN (Magnitude and Phase) - High resolution susceptibility weighted angiography 3D COSMIC - For axial c-spine imaging with excellent CNR and SNR Magnetization Transfer Contrast (MTC) for oncology neuro imaging 3D SILENZ - 3D isotropic within 3dB(A) of the ambient conditions inside exam room MAGIC SCAN - One scan results 8-Contrasts & 3-Maps for perfect registration across all contrasts and improved productivity MR Inline Pasting for 2-3 stations spine imaging		
		Comprehensive MSK Applications		
		2D Imaging Motion Correction Technique - Propeller 3.0, compatible with 2D FSE/FRFSE Semi-automatic annotation of vertebral bodies ART - Acoustic Noise Reduction Technology Cartigram T2 map - Noninvasive T2 mapping technique cartilage visualization MAVRIC SL - Novel metal implant artifact reduction technique using multiple spectrum imaging		

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		2D MARS high receiver bandwidth metal artifact reduction technique - T1, PD, T2, STIR 3D CUBE - 3D Imaging for excellent Hi-Res Musculoskeletal Imaging 2D/3D MERGE for High resolution cartilage imaging 2D STIR 2D FSE-XL 2D GRE 3D FSPGR/FGRE FATSAT/ASPIR		
		Comprehensive Body Applications Auto protocol optimization - Automated breath-hold imaging workflow optimization ART- Acoustic Noise Reduction Technology for improved patient comfort 2D Imaging Motion Correction Technique Body Navigator - Enables to perform a navigated, free-breathing body imaging acquisition 3D LAVA - Rapidly, accelerated 3D T1 dynamic (DCE) body imaging, liver, prostate, etc. Multi-Phase with Variable Delays for contrast dynamic body perfusion studies, Live, Breast, Prostate, etc. 3D FRFSE-XL and 2D SSFSE Thick Slab - High resolution MRCP 2D and 3D Dual Echo - Chemical Shift Imaging for microscopic fat detection IDEAL-IQ - Liver fat/iron quantification in a single breath-hold Enhanced DWI - Multiple b-Values, Smart NEX, additional diffusion mode including 3 in 1 & Tetrahedral FOCUS DWI - High resolution small field of view DWI for Pancreas, Kidneys, Prostate, Uterus, Rectum, etc. 2D SSFSE - Fast T2 weighted motion freezing acquisition 2D FSE-XL 2D STIR/ FIRM T2 Fatsat FRFSE-XL 2D FatSat FIESTA 2D FSPGR with Fatsat 3D FSPGR		
		Comprehensive Cardiac and Vascular Applications Double and Triple IR - Black blood T1, T2, STIR Cardiac morphology study 2D FIESTA Cine - Bright blood cardiac cine morphology study 3D FatSat FIESTA - bright blood morphology imaging of coronary arteries iDRIVE Pro real-time imaging - real-time FIESTA Cine imaging Fluro-Triggered MRA - real-time monitoring contrast bolus arrival at the region of interest to initiate the MRA acquisition SmartPrep for vascular runoffs - Tracker detection of contrast arrival for automated workflow SmartStep for vascular runoffs - Bolus chasing multi-station CE MRA capturing both arterial and venous phases for automated workflow TRICKS - Dynamic contrast study for vascular imaging INHANCE 3D Velocity - Non-Contrast MR Angiography to acquire angiographic images in brain and renal arteries INHANCE 2D INFLOW – Non-Contrast MR Angiography carotids, popliteal and femoral INHANCE 3D DELTA FLOW - Non-Contrast MR Angiography for peripheral arterial imaging MR Pasting for stitching multi-station MRA 2D/3D Phase Contrast Angio 2D/3D TOF 3D Fast TOF with GRE/SPGR for CE-MRA VCG Gating VCG Gated GRE and Fast SPGR		
		Comprehensive Oncology Applications Body Navigators pencil-beam diaphragm tracker APx Auto Protocol Optimization for breath-hold exams 2D Imaging Motion Correction Technique 3D Cube FSE-based imaging 3D LAVA and TurboLAVA with Turbo ARC and SPECIAL Enhanced DWI - Multiple b-Values, Smart NEX, additional diffusion mode including 3 in 1 & Tetrahedral FOCUS DWI - High resolution small field of view DWI for Pancreas, Kidneys, Prostate, Uterus, Rectum, etc. Multiphase DynaPlan SmartPrep automated bolus detection Fluoro Trigger real-time bolus monitoring READYView, BrainView and BodyView post-processing		

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		<p>Acoustic Noise Reduction Technology - ART</p> <p>Comprehensive Pediatric Applications 2D Imaging Motion Correction Technique 3D Imaging Motion Correction Technique 3D Cube FSE-based imaging including Dual Inversion Recovery 3D COSMIC modified steady state imaging 3D BRAVO IR prepared fast SPGR imaging 3D FIESTA and 3D FIESTA-C fast steady state imaging eDWI enhanced diffusion with Multi-B value and SmartNEX FOCUS DWI/DTI - High resolution small FOV DWI PROBE PRESS single voxel spectroscopy Body Navigators pencil-beam diaphragm tracker 3D LAVA and TurboLAVA with Turbo ARC and SPECIAL Black Blood SSFSE StarMap T2 iron assessment BrainStat AIF parametric maps READYview and BrainView post-processing Acoustic Noise Reduction Technology – ART 3D SILENZ - 3D isotropic within 3dB(A) of the ambient conditions inside exam room MAGIC SCAN - One scan results 8-Contrasts & 3-Maps for perfect registration across all contrasts and improved productivity</p>		
		<p>Comprehensive Breast Applications VIBRANT - Volume Imaging for Breast Assessment permits high definition bilateral imaging of both breasts BREASE - Breast spectroscopy acquisition help characterizes breast anatomy T1/T2 FATSAT/STIR/ Water Suppression eDWI enhanced diffusion with Multi-B value and SmartNEX FOCUS DWI/DTI - High resolution small FOV DWI</p>		
		Helium	included	
		RF Shielding	included	1 Unit
		Oxygen Monitor	included	1 Unit
		Wide Security Strap Set	included	1 Unit
		Narrow Security Strap Set	included	1 Unit
		Phantoms	included	1 Unit
		Hand Held metal detector	included	1 Unit
		Coil Cabinet	included	1 Unit
		Table and Chair	included	1 set
		Observation CCTV Camera	included	1 set
		MR Injector	included	1 Unit
		Dry Film Printer	included	1 Unit
		Cooling system	included (choice of air-cooled or water chiller)	1 set
		Sound System	included	1 Unit
		IV Stand Non-Magnetic	included	1 Unit