## No.1

## Република Србија Канцеларија за управљање јавним улагањима 404-02-11/2017-01

## **Procurement of MRI Scanner**

Question number	Reference in Tender documents	Question	Answer		
1.	Technical Specifications 4.3.	Be aware that for whole body scanning min range is 200cm with two identical coils (nor combination of different).  Requirement: Separate two dedicated anterior coils for body scanning in range of 200cm with minimum 32 coil element and simultaneous aquistion with other coils	Suggestion is not accepted: Under this requirement it is not requested whole body imaging.		
2.	Technical Specifications 4.7.	Dedicated pediatric neuro vascular coli is avilable with 8 channels. For babies up to 10 kg Requirement: Separate, dedicated multi-channel coil for the imaging of pediatric (babies) head and neck including neuro-vascular examination with minimum of 8 coil elements for basic and advanced head studies capable.	Suggestion is accepted. Technical requirement is changed to: Separate, dedicated multichannel coil for the imaging of pediatric (babies) head and neclincluding neuro-vascular examination with minimum of 8 coil elements for basic and advanced head studies capable for simultaneous acquisition with other coils		
3.	Technical Specifications 4.8.	Set of two single channel coils for surface examination in diametr of 23mm and 47mm are available.  Requirement: Separate, dedicated multi-channel coil or two single channel coils for the imaging of small Field of Views and small structures near the surface.	Suggestion accepted. Technical requirement is changed to: Separate, dedicated multichannel coil or two single channel coils for the imaging of small Field of Views and small structures near the surface.		
4.	Technical Specifications 8.2.4.	Not clearly specified. Should include FFE and TSE, 2-point etc Requirement: Fat and water separation technique using mDIXON FFE and TSE, 2-point	Suggestion is not accepted.		



. [			- word in volument vianagement office	IOP/1-2017/RD	,
	5.	Technical Specifications 10.1.	Magnet length incl. covers (in cm) Proposal to ponder magnet homogeneity and image quality not only vendor's magnet length Please ponder Guarenteed Magnet homogeneity as foloows: Guaranteed Magnet homogeneity (ppm, V-RMS) DSV 10 cm 0,04 ppm 0 point 0,03 ppm 1 point 0,02 ppm or less 3 point	Suggestion is not accepted.	
			DSV 40 cm 1,4 ppm 0 point 1.0 ppm 1 point 0.6 ppm or less 3 points		
	6.	Technical Specifications 10.3.	Proposal to better define clinical benefits not vendor's numbers Please define nr. Of coils for WHOLE BODY EXAMINATIONS becouse elements connected simultaneously meens nothing than vendors's specification- no clinical benefit This discussion about maximum elements is a bit irrelevant when related to required image quality (customer need) vs #elements (tender need). It should ideally state the technology used where the concept is explained directly providing the benfits for the customer. Please ponder coil elements – cannels above 32 as follows  Coil technology – number of simultaneously connected coil elements used for whole body examination:  32 -0 point	Suggestion is not accepted.	
			64 -1 point 96 - 2 points 128 or more -3 point		



,		D. 1. 1. 00 1. 11	1OP/1-201 //RD
7.	Technical Specifications 10.5.	Proposal to ponder Clinical benefits (max FoV) not vendor's numbers  Performance of the gradient system is not only defined by amp/slew. Please replace vendor specc whic are requested wit Max FoV with max. Gradient Apmlitude as follows  Performance of gradient system (Max. FoV with max. Gradient Amplitude [cm]):  45 cm	Suggestion is not accepted.
8.	Technical Specifications 10.6.	Proposal to ponder Clinical benefits for spine examination not vendor's numbers	Suggestion is accepted.  Pondering criteria is changed to:  Number of coil elements for spine examination (with spine coil):  12 -0 point  13 to 25 -1 point  26 to 35 -2 points
9.	Technical Specifications 10.11.	Not existin artifact free imaging! Please define request as Artefact reducing technique 3D Vane XD or similar There is no thing as artefact free imaging. However you can reduce artefacts by using different techniques. One technique reverred to here is radial stack of stars for free breathing.	36 or higher - 3 points  Suggestion is partially accepted.  MultiVane technique is already requested under point 8.2.1. as mandatory requirement and can not be offered for 10.11.  Technical requirement is changed to: Artifact reducing abdominal imaging without gating or breathold using Radial imaging technique  Pondering criteria is changed to:  Artifact reducing technique for abdominal imaging without gating or breathold using Radial imaging technique:  NO - 0 point  YES - 5 points



~		. ~				
C	ar	ıtı	ca	ti	Ot	15

	_		
Public	Investment	Management	Office
I donc	III A COULLELL	Management	Office

Юŀ	1/1	20	117	T	
Ю	7/1	-20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/K	ı,

		DI 1 10 D 11 . 1		IOP/1-2017/RD
10.	Technical Specifications 10.15.	Please ponder dS Pediatric support mattres as solution for 0 kg coil weight. It is a support frame which enables no contact between patient and coil  Obviously not a very specific requirement. The weight in this case should be vs the coverage ratio. This coil has an enourmus FOV (up to 60cm) and the weight is distributed over the total	Suggestion is not accepted.	
		area. In general customers initially think the coil is on the heavy side but once the coil is positioned nobody thinks it is too heavy. Considering the large FOV that can be achieved the weight trade-off is of little importance. Also with Pediatric positioning pack and Anterior		

The Public Procurement Commission