

Nordisk Sikkerhet AS
Tender title: Supply of RN material hand-held detectors and personal dosimeters
Project title: "RN material detection, protection, dosimetry equipment and
training for Zhytomyrskyi Border Detachment, SBGS, Ukraine"

Specifications

Supply of RN material hand-held detectors and personal dosimeters

Contracting Authority: Nordisk Sikkerhet AS
Recipient: Zhytomyrskiy Border Detachment of SBGS
Tenderer's name: ______

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NOTE

The Tenderer shall fill in the Annex "Specifications" in the format given below. The Tenderer's proposed supplies should be manufactured and certified in accordance with the technical regulations and standards of Ukraine. The complete table should be submitted to the Contracting Authority along with the required tender documents. On the front page of the Annex "Specifications", the Tenderer shall indicate its name. After the completion of this document, it should be signed and dated by the Tenderer-authorized person.

1. LOT 1: GAMMA AND NEUTRON HAND-HELD DETECTORS

	Contracting Authority's Requirements	Tenderer's Offer
Manufacturer	_	
Model	_	
Scope of supply	50 pcs	
TECH	INICAL SPECIFICATIONS	
Detection channels	Gamma, neutron independent channels	
Energy range of detected gamma radiation	From 60 keV to 3 MeV or better	
Energy range of detected neutron radiation	From 0.025 eV to 14 MeV or better	
Measurement range of individual dose equivalent rate Hp(10)	From 0.01 μ Sv/h to 70 μ Sv/h or better	
Uncertainty of measuring individual dose equivalent rate Hp(10) when calibrated for ¹³⁷ Cs, no more than	± 30%	
Setup time of operating mode, no more than	2 min	
Measurement time, no more than	2 sec	
Alarm indication	Visual and audible alarms when thresholds are exceeded. Haptic alarm is an advantage.	

	Contracting Authority's	Tenderer's Offer
Functions	Requirements - Indication of measured val-	
Functions	ues on the built-in display;	
	- Adjustable thresholds for	
	alarm;	
	- Recording the measure-	
	ments in the non-volatile	
	memory.	
Battery and battery life	Battery life should be greater	
Buttery and Buttery me	than 40 hours under no	
	alarm conditions for instru-	
	ments with non-	
	rechargeable batteries and	
	greater than 12 hours for	
	units with rechargeable bat-	
	teries.	
Weight, no more than	1.0 kg	
Physical dimensions	Compact, suitable for	
	handheld use.	
	Comfortable carrying handle	
	and attachment to clothing is	
	an advantage.	
Shockproof	Yes	
Waterproof, no less than	IP54	
Mean time between failures, no less	4000 hours	
than		
Service life, no less than	6 years	
	NMENTAL REQUIREMENTS	
Ambient temperatures	From -30 to+45 °C	
Relative humidity	Up to 95% at ambient tem-	
	perature of 35°C and lower,	
	without condensation of	
Partie	moisture	
	RVATION AND PACKAGING	
Packaging	Protection for transporta-	
	tion, handling and reliable	
	storage without re- preservation within 1 year	
	upon delivery.	
07	THER REQUIREMENTS	
Certified for use in Ukraine	Yes	
Visibility of Norwegian financing	Any equipment delivered	
violonity of two wegian infancing	under the contract should be	
	clearly identified and should	
	have metallic plates or indel-	
	ible labels containing the flag	
	of Norway and the phrase	
	"Provided with support from	
	the Government of Norway"	
	in Ukrainian and in English.	

2. LOT 2: PERSONAL ELECTRONIC DOSIMETERS

Manufacturer		Contracting Authority's	Tenderer's Offer
Model Copper Scope of supply Scope of supply 1. Personal electronic dosimeters – 50 pcs. 2. Spare parts for 3 years of operation (accumulator batteries) – 1 set (to be defined by the tenderer)		Requirements	
Scope of supply 1. Personal electronic dosimeters - 50 pcs. 2. Spare parts for 3 years of operation (accumulator batteries) - 1 set (to be defined by the tenderer)	Manufacturer	_	
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2. Spare parts for 3 years of operation (accumulator batteries) - 1 set (to be defined by the tenderer)			
operation (accumulator batteries) - 1 set (to be defined by the tenderer) TECHNICAL SPECIFICATIONS Energy range of registered gamma radiation		-	
TECHNICAL SPECIFICATIONS		1	
TECHNICAL SPECIFICATIONS Energy range of registered gamma radiation Measurement range of individual dose equivalent rate H _E (10) Weight, no more than Dimensions Alarm indication Functions Functions Battery and battery life Battery and battery life Rechargeable battery shall provide more than 12 hours of continuous operation. Alternatively, a battery shall provide more than 12 hour sof continuous operation Shockproof Wese Hapts calarm rate, less than Mean time between failures, no less than From 60 keV to 3.0 MeV or better From 0.1 keV/h to 1 Sv/h to 9.9 Sv or better From 0.1 keV/h to 1 Sv/h to 2 Sv/h to 1 Sv/h to 1 Sv/h to 3 Sv/h to 1 Sv/h to 2 Sv/h to 1 Sv/h to 2 Sv/h to 1 Sv/h to 3 Sv/h to 4 Sv/h to 3			
TECHNICAL SPECIFICATIONS Energy range of registered gamma radiation From 60 keV to 3.0 MeV or better Measurement range of individual dose equivalent rate H _p (10) From 0.1 μSv/h to 1 Sv/h or better Measurement range of individual dose equivalent H _p (10) Trom 1 μSv to 9.9 Sv or better Weight, no more than 0.15 kg Dimensions Compact, suitable to be worn on a belt or to be carried in a pocket for hands free operations Alarm indication Visual and audible alarms when thresholds are exceeded.			
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$\begin{array}{c} \text{period for background dose} \\ \text{rates of up to } 0.2 \ \mu \text{Sv/h} \\ \\ \text{Mean time between failures, no less} \\ \text{than} \end{array}$	Waterproof, no less than	IP54 or more	
$\begin{array}{c c} & \text{rates of up to } 0.2 \ \mu \text{Sv/h} \\ \hline \text{Mean time between failures, no less} & 4000 \ \text{hours} \\ \hline \text{than} & & & & & \\ \hline \end{array}$	False alarm rate, less than	1 false signal in a 12-hour	
Mean time between failures, no less than 4000 hours			
than			
Service life, no less than 6 years		4000 hours	
, · · - J	Service life, no less than	6 years	

ENVIRONMENTAL REQUIREMENTS			
Ambient temperatures	From -10 to+45 °C		
Relative humidity	Up to 95% at ambient tem-		
	perature of 35°C and lower,		
	without condensation of		
	moisture		
PRESE	RVATION AND PACKAGING		
Packaging	Protection for transportation,		
	handling and reliable storage		
	without re-preservation		
	within 1 year upon delivery.		
	THER REQUIREMENTS		
Certified for use in Ukraine	Yes		
Visibility of Norwegian financing	Any equipment delivered		
	under the contract should be		
	clearly identified and should		
	have metallic plates or indel-		
	ible labels containing the flag		
	of Norway and the phrase		
	"Provided with support from	· ·	
	the Government of Norway"		
	in Ukrainian and in English.		

3. DOCUMENTATION

	Contracting Authority's Requirements	Tenderer's Offer
	DOCUMENTATION	
Technical specifications	In Ukrainian/Russian	
Operator's manual	In Ukrainian/Russian	
Passports for technical means	In Ukrainian/Russian	
Certificate of primary metrological verification	In Ukrainian/Russian	
Pattern approval certificate or equivalent document attesting certification of measurement instrument in Ukraine	In Ukrainian/Russian	
Training documentation	In Ukrainian/Russian	
Transportation documentation	In English and Ukrainian	

4. DELIVERY TERMS AND CONDITIONS

	Contracting Authority's Requirements	Tenderer's Offer
DELIVERY TERMS AND CONDITIONS		
Terms of Delivery	DDP, Incoterms 2010	
Place of Delivery	Zhytomyr, Ukraine	
Delivery Time	≤ 120 calendar days after the date of contract signature	

5. TRAINING COURSE: OPERATION, MAINTENANCE AND REPAIR

	Contracting Authority's Requirements	Tenderer's Offer
Place of training	Zhytomyrskiy Border De-	
(training room to be provided by	tachment of SBGS, Ukraine	
the Recipient)	·	
Duration of training course	2 days	
Language of training course	Ukrainian or English	
Number of trainees, up to	50 persons	
Themes to be covered	- Nature of ionizing radiation,	
	- Interaction of ionizing radi-	
	ation with matter,	
	- Radioactive sources and nu-	
	clear materials to be detected	
	using the supplied measuring	
	instruments,	
	- Operating principles of	
	measuring instruments,	
	- Detailed analysis of algo-	
	rithms and features of operation,	
	- Use of measuring instru-	
	ment,	
	- Setting-up procedures,	
	- Procedures of calibration	
	and measurements,	
	- Maintenance,	
	- Minor repairs,	
	- Specialized software: instal-	
	lation and operation.	
Theoretical part duration, no less	1 day:	
than	- 4 h for gamma and neutron	
	handheld detectors,	
	- 4 h for personal electronic	
	dosimeters.	
Practical part duration, no less than	1 day:	
	practical training at Recipi-	
	ent's training room and/or	
Instructional video	at border check point	
	Optional	
Verification	Test, written form	
	G COURSE DOCUMENTATION	
One certificate per trainee	In Ukrainian and English	
List of materials to provide per trainee	Set of training materials;User's documentation;	
uanice	- Training materials on one	
	CD/DVD.	
Training materials	In Ukrainian/Russian	
language	The straining reasonant	

	Contracting Authority's Requirements	Tenderer's Offer
Results of test after training should	Yes	
be delivered to the Contracting Au-		
thority and Recipient		

6. WARRANTY AND POST-WARRANTY SERVICES

	Contracting Authority's Requirements	Tenderer's Offer	
WARRANTY A	WARRANTY AND POST-WARRANTY SERVICES		
Duration of warranty period	≥ 24 months		
Place of warranty repairs and maintenance	Ukraine		
Presence of official representative of the manufacturer or authorised service centre in Ukraine	Yes		
Technical support during warranty and post-warranty period	Technical support by email or telephone in Ukrainian/English to solve any technical problems (software failure, anomalous behaviour, minor improvements concerning process, functional capabilities of data processing, etc.) and rectify any system-disabled state		
After-sales service	Compulsory after-sales service to be provided under a separate agreement with the Recipient shall include the following: - Maintenance and post warranty repair of the Equipment on the territory of Ukraine; - Rapid provision of spare parts and consumables.		

7

7. TIME SCHEDULE

No.	Action	Period of completion	Tenderer's Offer
1.	Submission of documents:	Within 45 calendar days af-	
	- Technical specifications.	ter the signing of Contract	
2.	Submission of documents:	2 weeks before the sched-	
	- Operator's manual,	uled shipment and supplied	
	- Passports/logbooks for technical	with equipment	
	means,		
	- Certificate of primary metrological		
	verification,		
	- Pattern approval certificate or		
	equivalent document attesting cer-		
	tification of measurement instru-		
	ment in Ukraine,		
	- Transportation documentation.		
3.	Submission of documents:	2 weeks before the sched-	
	- Training course documentation.	uled training	
4.	Equipment delivery	Within 120 calendar days	
		after the signing of Contract	
5.	Training of personnel	Within 120* calendar days	
		after the signing of Contract	

Note: *) The personnel training must be carried out not later than within one hundred and twenty (120) calendar days after the signing of Contract. The actual dates of training shall be confirmed by the Recipient and Contracting Authority no later than ten (10) days before the training course.

Authorized person on behalf of the Tenderer:

Name:	
Title:	
Signature: _	
Date:	