

## Annex 3

## Glossary of acronyms and abbreviations

2D	two dimensional
3D	three dimensional
Ab	antibody
AFPs	amplifying fluorescent polymers
Ag	antigen
AGM	automated georeferencing module
AIR	airborne
AM	amplitude modulation (AM broadcast radio)
AP	anti-personnel
APT	associated particle technique
AT	anti-tank
ATR	aided target recognition
BGO	Bismuth Germanate
CBI	Compton Backscatter X-ray Imaging
CDS	Central Demolition Site, Afghanistan
CMP	common midpoint
COTS	commercial off-the-shelf
CRDC	Defence R&D Canada
CROMAC	Croatian Mine Action Centre
CRREL	Cold Regions Research and Engineering Laboratory, US
CZT	cadmium zinc telluride
DARPA	Defense Advanced Research Projects Agency, US
DFID	Department for International Development, UK
DOB	depth of burial
DRDC	Defence R&D Canada
DRES	Defence Research Establishment Suffield
DSP	digital signal processor
EC	European Commission
EIT	electrical impedance tomography
ERC	explosive related compound
EUDEM	European Union in Humanitarian Demining project
FAR	false alarm rate
FMCW	Frequency Modulated Continuous Wave Radar
FNA	fast neutron analysis

FOI	Defence Research Agency, Sweden
FP	European Union's Framework Programme for Research and Technological Development
GDC	General Dynamics Canada
GICHD	Geneva International Centre for Humanitarian Demining
GIS	geographical information system
GPR	ground penetrating radar
GPS	global positioning system
HD	humanitarian demining
HMAU	Humanitarian Mine Action Unit
HSLs	hyper-spectral line scanner
IAEA	International Atomic Energy Agency
ICT	information and communication technologies
IED	improvised explosive device
INS	inertial navigation system
IR	infra-red
ITEP	International Test and Evaluation Programme for Humanitarian Demining
KIA	Kabul International Airport
LAN	local area network
LDV	laser Doppler vibrometer
LMR	lateral migration radiography
MAG	Mines Advisory Group
MAIS	mine action information system
MB-LDV	multi-beam laser Doppler vibrometer
MD	metal detector
MEDDS	Mechem Explosive and Drug Detection System
MgM	Menschen gegen Minen
MLBS	maximum length binary sequence
MSIR	multispectral /thermal infrared
MWR	microwave radiometer
NBS	neutron backscattering
NMR	nuclear magnetic resonance
NNA	nanosecond neutron analysis
NPA	Norwegian People's Aid
NQR	nuclear quadrupole resonance
NVESD	Night Vision and Electronic Sensors Directorate, US
OPMS	optical position monitoring system
PC	personal computer
PCA	principal component analysis
PD	probability of detection
PFA	probability of false alarm
PFNA	pulsed fast neutron analysis
PFTNA	pulsed fast-thermal neutron analysis

PRC	pseudo random code
QCM	quartz crystal microbalance
REM	remote detection system
REST	Remote Explosive Scent Tracing
RF	radio frequency
RFI	radio frequency interference
ROC	receiver operating curves
RSD	radiography by selective detection
RX	receiver
SAR	synthetic aperture radar
SNR	signal to noise ratio
SOPs	standing operating procedures
SPIE	The International Society for Optical Engineering
TBD	to be defined
TDT	Testing, Development and Training, CROMAC
TIR	thermal infra-red
TMAC	Thailand Mine Action Centre
TNA	thermal neutron analysis
TNO	Netherlands Organization for Applied Scientific Research
TNT	trinitrotoluene
TOF	time-of-flight
TRL	Technology Readiness Level
TX	transmitter
UAV	unmanned aerial vehicle
UNMACA	United Nations Mine Action Centre for Afghanistan
UWB	ultra wideband
UXO	unexploded ordnance

### ***Units of measurements***

cm	centimetre
dB	decibel
dBm	decibel (absolute power level, 0dBm=1mW)
eV	electron Volt
GHz	gigahertz
K	Kelvin
kg	kilogram
kHz	kilohertz
kVp	kiloVolt peak

lb	pound
m	metre
m <sup>2</sup>	square metre
MeV	million electron Volt
MHz	megahertz
mm	millimetre
µs	microsecond
m/s	metre/second
ng	nanogram
nm	nanometre
n/s	neutrons per second
pg	picogram
ps	picosecond
s	second
V	Volt
W	Watt