
ANNEX I

CALL FOR PROPOSALS No.2018/EMSA/CP/01/2018

Donation of shore-based Automatic Identification Systems (AIS) equipment to ENP Countries

Table 1 – List of equipment for each shore-based AIS station

	Item	Description	Model	Power supply	Power consumption	Capacity	Standards
1	AIS GBS (PSS)	AIS GBS certified by a notified lab compliant to ITU-R M. 1371-4 (2010) and to the standard IEC 62320-1(2009) or superior.	ELMAN ABT-1103	AC: 115 / 230 V DC: 24 V	20 W	-	IMO MSC.74(69), Annex 3 ITU-R M.1371-4 ITU-R M.1084-4 ITU-R M.493-13 ITU-R M.541-9 ITU-R M.825-3 IEC 62320-1, Ed 1.1 IEC 61162-1, Ed 4.0 IEC 61162-2, Ed 1.0 IEC 61108-1, Ed 2.0 STANAG 4669 Ed.1 & 2 STANAG 4668 Ed.1 & 2 EN 60950:2006 EN 301 489-1, V 1.8.1 EN 301 843-1, V 1.2.1 EN 301 843-2, V 1.2.1 EN 55022:2006 + A1:2007 EN 61000-3-2:2006 EN 61000-3-3:1995 + A1:2001 + A2:2005 EN 61000-4-2:2000 EN 61000-4-3:2006 EN 61000-4-4:2004 EN 61000-4-5:2006 EN 61000-4-6:2009 EN 61000-4-11:2004
2	AIS server Embedded (LSS)	Dual redundant AIS BSC (Base Station Controller) compliant with relevant sections of "IALA" Recommendation A-124 On the AIS Service	ELMAN BCD-1135-22000-VG5-4GB	AC: 115 / 230 V DC: 24 V	10 W	-	IALA Recommendation A-124 ITU-R M.1371-4 IEC 62320-1, Ed 1.1 IEC 61162-1, Ed 4.0 IEC 61162-2, Ed 1.0 IEC 61108-1, Ed 2.0 EN 60950-1 (2006) EN 55022 (2009) EN 55024 (2012) EN 301 489-7 (2005)

3	VHF Antenna	Whip or Dipole Antenna including brackets, cables and connectors	ELMAN TY-010NG with brackets, cables and connectors. 20 metres of RG214 cable are included.				
4	GPS Antenna	GPS Antenna type "bullet", including brackets, cables and connectors	TRIMBLE Bullet III with brackets, cables and connectors. 15 metres of RG59 cable are included.	DC: 5 V	0.15 W		
5	UPS	Backup power supply unit including batteries	ELMAN BCU-1144 with battery pack	AC (in): 115 / 230 V DC (out): 24 V	-	100 Ah	
6	EMP&RF protection for antennas	EMP & R/F protectors (e.g. from lightnings) for antennas	HUBER+SUHNER 3401.17.A for the VHF antenna HUBER+SUHNER 3402.27 for the GPS antenna				
7	EMP&RF protection for APC	EMP & R/F protectors (e.g. from lightnings) for APC	OBO-BETTERMANN V20-C2-385-FS				
8	EMP&RF protection for LAN	EMP & R/F protectors (e.g. from lightnings) for the network	DEHN DPA M CLE RJ45B 48				
9	Rack unit 19"	Standard rack 19" including surge protection devices, socket strips and tools for installing the hardware	Standard 22 units cabled rack including surge protection devices, socket strips and tools for installing the hardware				

	Voltage stabiliser	Voltage stabiliser (max load 4.0 Amps) including UPS batteries	Voltage stabiliser functionality is already provided by the previously mentioned equipment				
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Table 2 – List of equipment for the central node

	Item	Description	ELMAN proposal	Power supply	Power consumption	Capacity	Standards
10	Gateway Server embedded	Dual Server Embedded for storage of AIS messages (at least 4 GB) received by the national network.	ELMAN BCD-1135-22000-4GB	AC: 115 / 230 V DC: 24 V	10 W	-	IALA Recommendation A-124 ITU-R M.1371-4 IEC 62320-1, Ed 1.1 IEC 61162-1, Ed 4.0 IEC 61162-2, Ed 1.0 EN 60950-1 (2006) EN 55022 (2009) EN 55024 (2012) EN 301 489-7 (2005)
11	Software for SNMP monitoring	Software for monitoring the status of PSSs and LSSs	PAESSLER PRTG 500				
12	Rack unit 19"	Standard rack 19" including surge protection devices, socket strips and tools for installing the hardware	Standard 22 units cabled rack including surge protection devices, socket strips and tools for installing the hardware				
13	Workstation	Professional workstation including OS software licence and monitor 21"	DELL Precision T3620 including O.S.	AC: 100 to 240 VAC	≈300 W	-	
14	Monitor		Dell Monitor 24" SE2416H	AC: 100 to 240 V	20 W	-	
15	APC	Power supply including UPS batteries (battery operation approx 30 hours)	ELMAN BCU-1144 with battery pack	AC (in): 115 / 230 V DC (out): 24 V	-	55 Ah	
16	Desktop AIS visualisation console	Visualisation software for the AIS tracks	ELMAN Pelagus console				