

**Specification of the equipment to be procured under the project "Building Capacity and Main Streaming Sustainable Land Management in the Maldives"**

Item	Art No/Part No	Description	Qty
<b>A</b>	<b>SmartStation Setup</b>		
<b>A1</b>	<b>GNSS Receiver</b>		
<b>A1.1</b>	<b>GNSS Receiver</b>		<b>1</b>
1	771503	GS15 Performance, GNSS SmartAntenna, Geodetic 120 channels GNSS receiver with options: GPS L1+L2, 20 HZ position rate, Raw data logging, RTK unlimited, RTK Network, Reference station setup. Easily upgradeable with GS15 options: (e.g. Glonass, Galileo, GPS)	1
2	767804	LOP1, GPS L5 option, enables GPS L5 tracking on a GS10 or GS15 receiver.	1
3	767805	LOP2, GLONASS option, enables GLONASS tracking on a GS10 or GS15 receiver	1
4	767811	LOP8. RINEX option, allows logging of RINEX data on GS10 or GS15 receiver.	1
5	767818	LOP15, NMEA out option, enables NMEA to be streamed from GS10 or GS15 receiver.	1
6	110175482	Industrial Grade Compact Flash Card 512MB	1
7	767827	GVP641, Hard container for 2x GS15 GNSS SmartAntenna and CS15/CS10 field controller. The container allows a GS15 base station and GS15 rover with all accessories to be transported.	1
<b>A1.2</b>	<b>Leica CS15 Controller for Rover</b>		
8	767869	CS15 Field Controller. Ruggedized WinCE field controller with full VGA touch display, 1GB NAND Flash Memory, 512MB SDRAM, CF/SD card slot and 2MP camera. Includes bluetooth, QWERTY keypad, stylus. Available with either Lemo connector (CBC01) or DSUB connector	1
9	767874	CBC01, Lemo Connector module with power jack, Lemo (USB and Serial) and USB A Host for CS10 and CS15 field controller.	1
10	767908	SmartWorx Viva software and DVD.	1
11	767909	SmartWorx Viva license key.	1
12	110175482	Industrial Grade Compact Flash Card 512MB	2
<b>A2</b>	<b>Total Station</b>		
1	754316	TCRA1203+ R1000, 3"(1 mgon) total station with reflectorless EDM, automatic target recognition, laser plummet, 1 keyboard with touch screen, colour display, electronic guide light EGL, standard applications, user manual and container.	1
<b>A3</b>	<b>Wireless link (GSM &amp; Radio modem)</b>		
<b>A3.1</b>	<b>GSM</b>		<b>1</b>
1	774689	SLG2, 4-Band (850/900/1800/1900/ Mhz) Siemens MC75i GSM/GPRS module. Universal 4-band technology supports GSM,GPRS and EDGE network providers. Can be easily plugged into the GS15 GNSS receiver.	1
2	667237	GAT3, Antenna for 900/1800 MHz mobile network.	1
3	767790	GAD108, arm to mount external UHF antenna to GS15 SmartAntenna, useful in areas of poor radio or cellphone network reception. Gainflex antenna fits on arm.	1
<b>A3.2</b>	<b>Radio</b>		<b>1</b>
1	767820	SLR2, Sateline 3AS 403-470 Mhz RXO radio. RTK receive only UHF radio module to be easily plugged into the GS15 GNSS receiver.	1
2	667243	GAT2, Gainflex radio antenna, frequency range 435-470MHz.	1
3	767790	GAD108, arm to mount external UHF antenna to GS15 SmartAntenna, useful in areas of poor radio or cellphone network reception. Gainflex antenna fits on arm.	1

<b>A4</b>		<b>Accessories for mounting SmartAntenna GS15 onto Total Station</b>	<b>1</b>
		<b>Accessories for non motorized or motorized Total Station</b>	<b>1</b>
1	767802	GAD110, SmartStation Adapter. Required to attach GS15 SmartAntenna onto TPS1200+/TS30/TM30 totalstation for SmartStation setup. To use TPS1200+/TS30/TM30 as a SmartStation together with the GS15 SmartAntenna, the CS10/CS15 field controller is required to GSD03 communication side cover, including bluetooth, for motorized TPS1200+ instruments	1
2	755538	(TCRM, TCA, TCRA models). Required for SmartAntenna Adapter and RadioHandle (can be ordered only together with a new instrument).	1
3	769992	GTS23 V2, 2nd keyboard with touch screen and colour display, for TPS1200+ / TM30 instruments, for telescope position 2, fitted.	1
4	744501	GDZ66, Back strap (2), for container.	1
5	667304	GDF121, PRO Tribach, without optical plummet, pale green.	1
6	733270	GEB221, Lithium-Ion battery, 7.4V/4.4Ah, chargeable.	2
7	733271	GKL221, Charger PRO. To be used with up to two charging adapters GDI221 or GDI222, Charger cable and net adapter included.	1
8	733323	GDI221, Adapter for GKL221 for charging 2 Li-Ion batteries GEB241, GEB221, GEB211.	2
9	110175482	Industrial Grade Compact Flash Card 512MB	1
10	667718	GHM007 Instruments height meter.	1
11	722045	GHT196 Distance holder for height meter.	1
12	767828	GVP642, Hard container for GS15 SmartAntenna and CS15/CS10 field controller. The container allows a GS15 rover and all accessories for a SmartStation and SmartPole to be transported.	1
13	744501	GDZ66, Back strap (2), for container.	1
14	667301	GST120-9, Wooden heavy duty tripod, selfclosing.	1

<b>A5</b>		<b>On-board software for Total Station</b>	<b>1</b>
1	748188	SmartWorx TPS Application "Area Divison".	1
2	734169	SmartWorx TPS Application "DTM Stakeout".	1
3	760346	SmartWorx TPS Application "Onboard DXF Exporter".	1
4	742442	SmartWorx TPS Application "Hidden Point".	1
5	763403	SmartWorx TPS Application "Land XML".	1
6	744701	SmartWorx TPS "Monitoring" (requires application "Sets of Angles").	1
7	734168	SmartWorx TPS Application "Sets of angles".	1
8	734170	SmartWorx TPS Application "Traverse".	1
9	765559	SmartWorx TPS Traverse Adjustment (requires Traverse 734170).	1
10	748187	SmartWorx TPS Application "Volume Calculation".	1

<b>A6</b>		<b>Prism Set</b>	
<b>A6.1</b>		<b>Prism set for Total Station</b>	<b>1</b>
1	641617	GPR121, Circular prism, with holder and target plate.	2
2	725566	GZR103, Carrier, with plate level and optical plummet, for reflectors.	2
3	667304	GDF121, PRO Tribach, without optical plummet.	2
4	667451	GVP609, Container for 2 Circular prisms, 2 Carriers and 2 tribrachs.	1
5	667301	GST120-9, Wooden heavy duty tripod, selfclosing.	2
6	641662	GMP101, Mini prism, incl. bubble, target plate and spike, in bag.	2
7	385500	GLS11, Reflector pole, telescopic, with circular bubble, cm and ft graduation, extends to 2.15m.	4

<b>B Leica Precise Digital Level</b>			
<b>B1 Leica Precise Digital Level</b>			
1	723289	DNA03, 0.3mm, precision digital level, magnetically-damped compensator, with Leica Geo Office Tools software, user manual and container.	1
2	744501	GDZ66, Back strap (2), for container.	1
3	667123	GEB121, Plug-in Camcorder battery, NiMH, 6V/4.2Ah, rechargeable.	2
4	734753	GKL112, Charger, for Ni-Mh batteries GEB121, car adapter cable and net adapter included.	1
5	733256	MCF32, CompactFlash card 32MB.	1
6	110175483	CF to PCMCIA Adapter	1
7	110227886	Compress Flash Card Reader, USB	1
8	636977	GSB5, Sunshade for digital level.	1
<b>B1.1 Accessories for DNA</b>			
1	667301	GST120-9, Wooden heavy duty tripod, carrying strap, self-closing.	1
2	522794	GKNL4M, Dual face levelling staff 4m, 3 sections, code/cm-graduation, with handles and circular bubble, in transport bag.	4
3	197000	GLUS1 Ground plate	2
<b>C Leica DISTO Meter</b>			
1	764555	Leica DISTO D8, range up to 200m,+/- 1mm accuracy, Digital viewfinder, Tilt sensor (360 degree), BLUETOOTH	2
2	769459	Adaptor for attachment to the pole and the tripod	2

<b>D Dell Latitude E6420 XFR Laptop</b>			
1	E642X	Latitude E6420 XFR	1
2	W7PN21A	Operating Systems: Genuine Window s® 7 Professional, No Media, 64-bit, English	1
3	I72640M	Processor: Intel® Core™ i7-2640M processor (2.80GHz, 4M cache,Upgradable to Intel® vPro™ technology)	1
4	U3YOS	Hardw are Support Services: 3 Year Basic Hardw are Service w ith 3 Year NBD Limited Onsite Service After Remote Diagnosis	1
5	4G1D3	Memory: 4.0GB, DDR3-1333MHz SDRAM, 1 DIMM	1
6	128SSDM	Primary Storage: 128GB Solid State Drive	1
7	6C	Primary Battery: 6-cell (60WH) Primary Lithium Ion Battery	2
8	DVN	Primary Optical Device: 8X DVD w ith Cyberlink Pow er DVD™, no media	1
9	DW1501	Wireless LAN (802.11): Dell Wireless™ 1501 802.11b/g/n Half Mini Card	1
10	CSMD	Systems Management: No Out-of-Band Systems Management	1
11	RF	RF-Pass-Thru: Triple RF-Pass-Thru	1
12	BT375	Bluetooth: Dell Wireless® 375 Bluetooth Module	1
13	NTSCM	LCDs: 14.0" HD (1366x768) Outdoor View able with Direct Vue™, FHD Fixed Focus Webcam and Mic	1
14	ENGBL	Internal Keyboard: Sealed Internal English Backlit Keyboard, White	1
15	N42WOSC	Graphics and Security Options: nVidia NVS 4200M 512MB DDR3 Discrete Graphics,w /out Fingerprint & Contactless Smartcard Reader	1
16	ESTAR	Energy Star & EPEAT: Energy Star 5.0 Enabled / EPEAT Gold	1
17	I7NBR	Processor Branding: Intel Core i7 Label	1
18	A2909150	System Accessories: Logitech Anyw here Mouse MX	1
19	318-1415	Laptop Bags: Dell Adventure 17" Backpack	1
20	90AC3P	AC Adapter: 90W A/C Adapter (3-pin)	1

<b>E Digital Camera</b>			
1		Nikon Coolpix AW100 with 1.5m lightweight tripod	2
2		Sandisk 16 GB Drive SDHC Flash memory	2