List of Equipment Procured By JICA Headquarters

JICA No.	Equipment	Equipment Model	Acquisition Date	Storage Place	Remark
13-3-002206	Single Beam Echo sounding System	PDR-1300	2014/1/20	MPWT/WD	For Shallow Area Survey
13-3-002207	Multi-beam Echo sounding System	SONIC2020	2014/1/20	MPWT/WD	Including Spare parts
13-3-002208	GNSS positioning System	SPS361	2014/1/20	MPWT/WD	Including Spare parts
13-3-002209	Surface SVP Profiler	Micro・X SV	2014/1/20	MPWT/WD	Including Spare parts
13-3-002210	ADCP System	ADP 500khz, SPS351	2014/1/20	MPWT/WD	Including Spare parts
13-3-002211	Motion Sensor	DMS-10	2014/1/20	MPWT/WD	Including Spare parts
13-3-002212	SVP Profiler	Minos・X SV・P	2014/1/20	MPWT/WD	Including Spare parts
13-3-002213	Hydrographic Survey Software	HYPACK MAX and HYSWEEP	2014/1/20	MPWT/WD	
13-3-002214	Hydrographic Survey Software	HYPACK MAX and HYSWEEP	2014/1/20	MPWT/WD	
13-3-002215	Note computer	ThinkPad T430	2014/1/20	MPWT/WD	For Data Acquisition
13-3-002216	Note computer	ThinkPad T430	2014/1/20	MPWT/WD	For Data Acquisition
13-3-002217	Note computer	ThinkPad T430	2014/1/20	MPWT/WD	For Data Acquisition
13-3-002218	Desktop computer	ThinkPad M72E	2014/1/20	MPWT/WD	For Data Acquisition
13-3-002219	Desktop computer	ThinkPad M72E	2014/1/20	MPWT/WD	For Data Processing
13-3-002220	Desktop computer monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Data Processing
13-3-002221	Desktop computer monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Data Processing
13-3-002222	Desktop computer monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Data Processing
13-3-002223	Desktop computer monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Data Processing
13-3-002224	Survey Navigation monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Survey Navigation
13-3-002225	Survey Navigation monitor	LENOVO LS2223	2014/1/20	MPWT/WD	For Survey Navigation
13-3-002226	External HDD	HD-PCT1TU3	2014/1/20	MPWT/WD	For Data Backup
13-3-002227	External HDD	HD-PCT1TU3	2014/1/20	MPWT/WD	For Data Backup
13-3-002228	USB-Serial port convertor	Edgeport/8	2014/1/20	MPWT/WD	For Data Converting
13-3-002229	USB-Serial port convertor	Edgeport/8	2014/1/20	MPWT/WD	For Data Converting
13-3-002230	Junction Box	J-BOX-1G(200)	2014/1/20	MPWT/WD	For Data Synchonization
13-3-002231	CAD Software	AUTOCAD MAP 3D 2014	2014/1/20	MPWT/WD	For DTM Editing
13-3-002232	GIS Software	ArcGIS for Desktop Basic	2014/1/20	MPWT/WD	For GIS Editing
13-3-002233	GIS Software	ArcGIS for Desktop Basic	2014/1/20	MPWT/WD	For GIS Editing
13-3-002234	A0 Plotter	DesignJet T920	2014/1/20	MPWT/WD	For Map Plotting
13-3-002237	CAD Software	AUTOCAD MAP 3D 2014	2014/1/20	MPWT/WD	For DTM Editing

List of Equipment Procured by Study Team

JICA No.	Equipment	Equipment Model	Acquisition Date	Storage Place	Remark
13-3-002235	Tide Gauge	5225WLB-2	2013/9/11	PAS SHV Port	Purchased in Japan For Tide station
13-3-002236	Tide Gauge	RT710-W	2013/8/23	MPWT/WD	Purchased in Japan For Temporay site
13-3-002238	UPS	GXT-2000MTPLUS230	2014/1/23	MPWT/WD	Purchased in Cambodia For Hydrographic survey
13-3-002239	UPS	GXT-2000MTPLUS230	2014/1/23	MPWT/WD	Purchased in Cambodia For Data Processing
14-3-002739	ENC Production Desktop computer	DELL PRECISION T1700	2014/5/16	MPWT/WD	Purchased in Cambodia For ENC Production
14-3-002740	UPS	GXT-2000MTPLUS230	2014/5/16	MPWT/WD	Purchased in Cambodia For Data Processing
14-3-002741	NAS Desktop computer	DELL OPTIPLEX 9020	2015/2/11	MPWT/WD	Purchased in Cambodia For NAS server
14-3-002742	NAS HDD	D-Link ShareCenter	2014/6/9	MPWT/WD	Purchased in Cambodia For Data Backup
15-3-002128	Tide Gauge	RT710-W	2016/2/23	MPWT/WD	Purchased in Japan For Temporay site
15-3-002129	ENC Production Software	SevenCs, FME	2016/2/23	MPWT/WD	Purchased in Japan For ENC Production
15-3-002130	Unmanned Aerial Vehicle	PHANTOM3	2016/3/10	MPWT/WD	Purchased in Japan For Remote Photo Taking

[JICA Assessment Number]
13-3-002206
[Equipment Name]
Single Beam Echo sounding System
[Model]
PDR-1300
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002206
[Equipment Name]
Single Beam Echo sounding System
[Model]
PDR-1300
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002206
[Equipment Name]
Single Beam Echo sounding System
[Model]
PDR-1300
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002207
[Equipment Name]
Multi-beam Echo sounding System
[Model]
SONIC2020
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002207
[Equipment Name]
Multi-beam Echo sounding System
[Model]
SONIC2020
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002207
[Equipment Name]
Multi-beam Echo sounding System
[Model]
SONIC2020
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002208
[Equipment Name]
GNSS positioning System
[Model]
SPS361
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002208
[Equipment Name]
GNSS positioning System
[Model]
SPS361
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002208
[Equipment Name]
GNSS positioning System
[Model]
SPS361
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002209
[Equipment Name]
Surface SVP Profiler (use with SONIC2020)
[Model]
Micro･X SV
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002209
[Equipment Name]
Surface SVP Profiler (use with SONIC2020)
[Model]
Micro･X SV
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002209
[Equipment Name]
Surface SVP Profiler (use with SONIC2020)
[Model]
Micro･X SV
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002210
[Equipment Name]
ADCP System
[Model]
ADP 500khz
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002210
[Equipment Name]
ADCP System
[Model]
ADP 500khz
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002210
[Equipment Name]
ADCP System
[Model]
SPS351
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002211
[Equipment Name]
Motion Sensor
[Model]
DMS-10
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002211
[Equipment Name]
Motion Sensor
[Model]
DMS-10
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002211
[Equipment Name]
Motion Sensor
[Model]
DMS-10
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002212
[Equipment Name]
SVP Profiler
[Model]
Minos･X SV･P
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002212
[Equipment Name]
SVP Profiler
[Model]
Minos･X SV･P
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002212
[Equipment Name]
SVP Profiler
[Model]
Minos･X SV･P
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002213
[Equipment Name]
Hydrographic Survey Software
[Model]
HYPACK MAX & HYSWEEP
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002213
[Equipment Name]
Hydrographic Survey Software
[Model]
HYPACK MAX & HYSWEEP
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
[Equipment Name]
[Model]
[Acquisition Date]
[Storage Place]
[Remarks]

[JICA Assessment Number]
13-3-002214
[Equipment Name]
Hydrographic Survey Software
[Model]
HYPACK MAX & HYSWEEP
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002214
[Equipment Name]
Hydrographic Survey Software
[Model]
HYPACK MAX & HYSWEEP
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002213 13-3-002214
[Equipment Name]
Hydrographic Survey Software
[Model]
HYPACK MAX & HYSWEEP
[Acquisition Date]
2014/1/20
[Storage Place]
プロジェクトサイト
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002215
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002215
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002215
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002216
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002216
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002216
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002217
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002217
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

[JICA Assessment Number]
13-3-002217
[Equipment Name]
Data Acquisition Note computer
[Model]
ThinkPad T430
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Acqusition

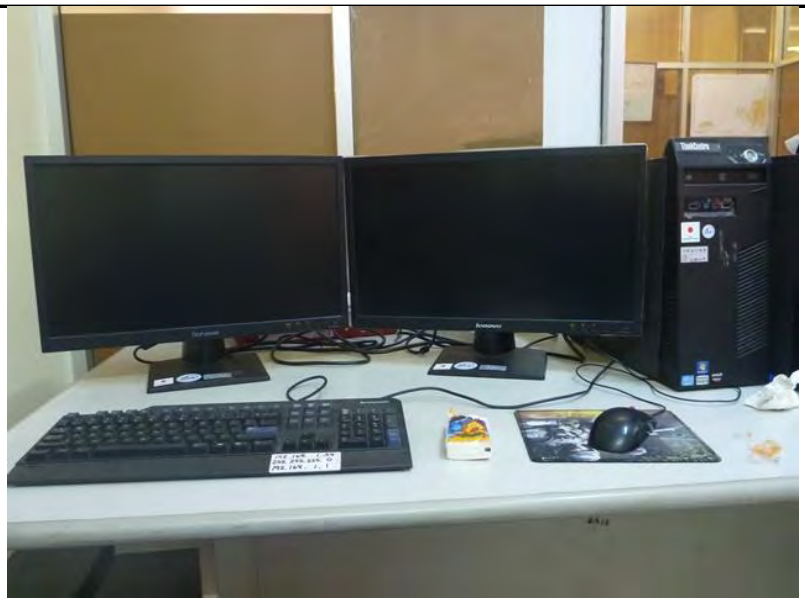
[JICA Assessment Number]
13-3-002218
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002218
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002218
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002219
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002219
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing



[JICA Assessment Number]
13-3-002219
[Equipment Name]
Data Processing Desktop computer
[Model]
ThinkPad M72E
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002220
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002220
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002220
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002221
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002221
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002221
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002222
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002222
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002222
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002223
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002223
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002223
[Equipment Name]
Data Processing Desktop computer monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Processing

[JICA Assessment Number]
13-3-002224
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002224
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002224
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002225
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002225
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002225
[Equipment Name]
Survey Navigation monitor
[Model]
LENOVO LS2223
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Navigation

[JICA Assessment Number]
13-3-002226
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

[JICA Assessment Number]
13-3-002226
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

[JICA Assessment Number]
13-3-002226
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

[JICA Assessment Number]
13-3-002227
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

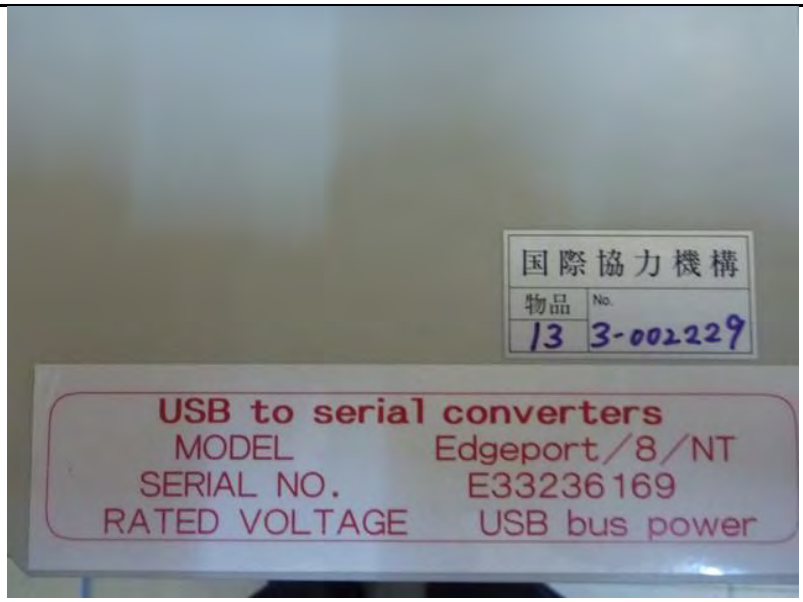
[JICA Assessment Number]
13-3-002227
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

[JICA Assessment Number]
13-3-002227
[Equipment Name]
External HDD
[Model]
HD-PCT1TU3
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV For Data Backup

[JICA Assessment Number]
13-3-002228
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002228
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002228
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV



[JICA Assessment Number]
13-3-002229
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002229
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

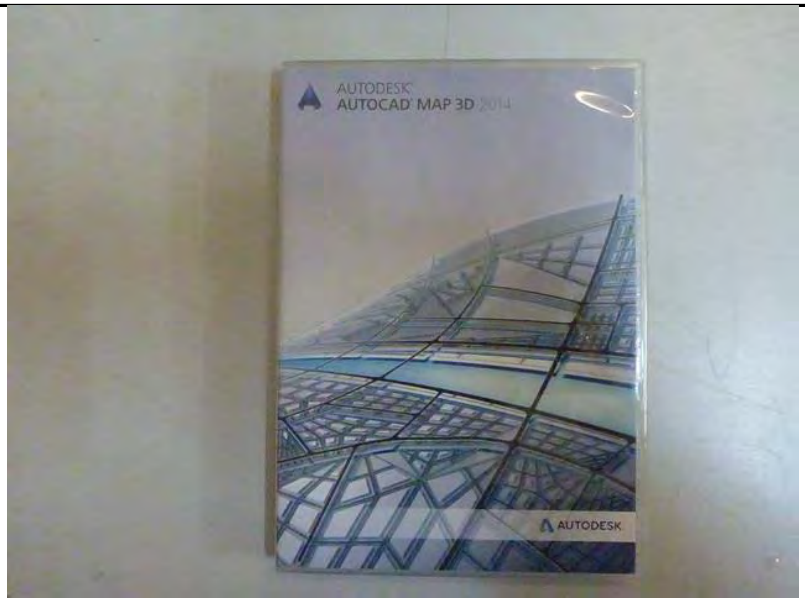
[JICA Assessment Number]
13-3-002229
[Equipment Name]
USB-Serial port convertor
[Model]
Edgeport/8
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002230
[Equipment Name]
Juction Box
[Model]
J-BOX-1G(200)
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002230
[Equipment Name]
Juction Box
[Model]
J-BOX-1G(200)
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002230
[Equipment Name]
Juction Box
[Model]
J-BOX-1G(200)
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002231
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV



[JICA Assessment Number]
13-3-002231
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002231
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002232
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002232
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002232
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002233
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002233
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002233
[Equipment Name]
GIS Software
[Model]
ArcGIS for Desktop Basic
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002234
[Equipment Name]
A0 Plotter
[Model]
Designjet T920
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002234
[Equipment Name]
A0 Plotter
[Model]
Designjet T920
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002234
[Equipment Name]
A0 Plotter
[Model]
Designjet T920
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002235
[Equipment Name]
Tidal Gauge (for Tidal station)
[Model]
5225WLB-2
[Acquisition Date]
2013/9/11
[Storage Place]
PAS
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002235
[Equipment Name]
Tidal Gauge (for Tidal station)
[Model]
5225WLB-2
[Acquisition Date]
2013/9/11
[Storage Place]
PAS
[Remarks]
Purchased via AAC

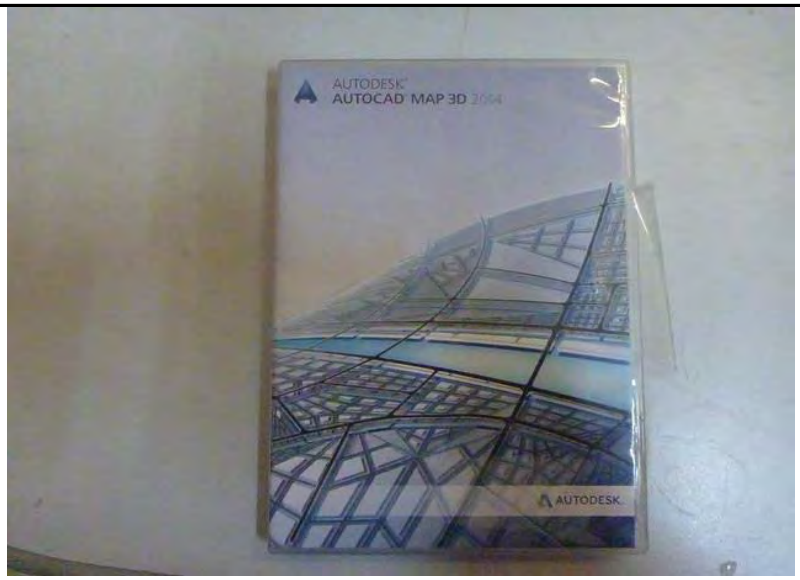
[JICA Assessment Number]
13-3-002235
[Equipment Name]
Tidal Gauge (for Tidal station)
[Model]
5225WLB-2
[Acquisition Date]
2013/9/11
[Storage Place]
PAS
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002236
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2013/8/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002236
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2013/8/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002236
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2013/8/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002237
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV



[JICA Assessment Number]
13-3-002237
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002237
[Equipment Name]
CAD Software
[Model]
AUTOCAD MAP 3D 2014
[Acquisition Date]
2014/1/20
[Storage Place]
MPWT/WD
[Remarks]
Purchased by JICA Received at SHV

[JICA Assessment Number]
13-3-002238
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002238
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002238
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

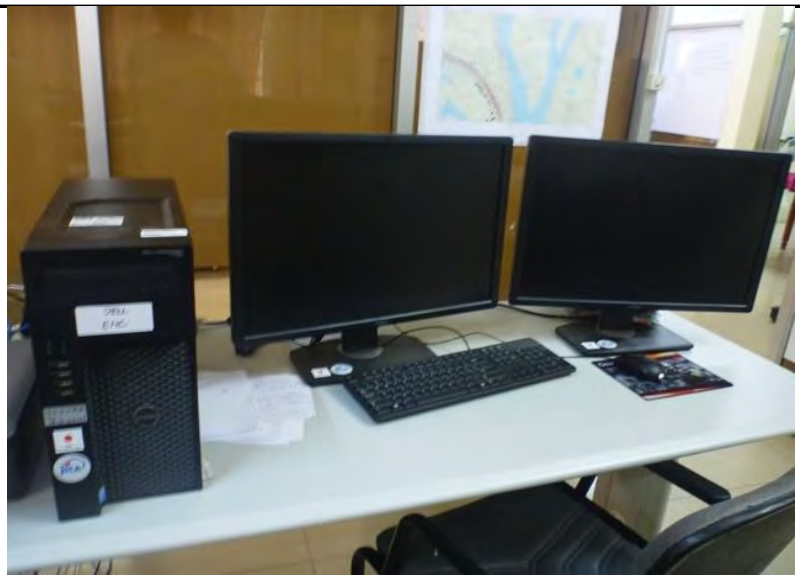
[JICA Assessment Number]
13-3-002239
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002239
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
13-3-002239
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/1/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002739
[Equipment Name]
ENC Productyion Desktop computer
[Model]
DEII PRECISION T1700
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002739
[Equipment Name]
ENC Productyion Desktop computer
[Model]
DEII PRECISION T1700
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC



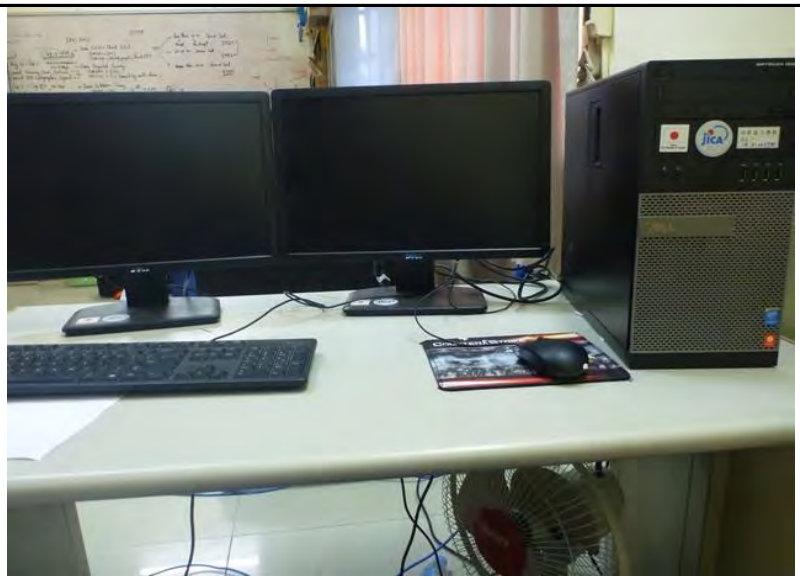
[JICA Assessment Number]
14-3-002739
[Equipment Name]
ENC Productyion Desktop computer
[Model]
DEII PRECISION T1700
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002740
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

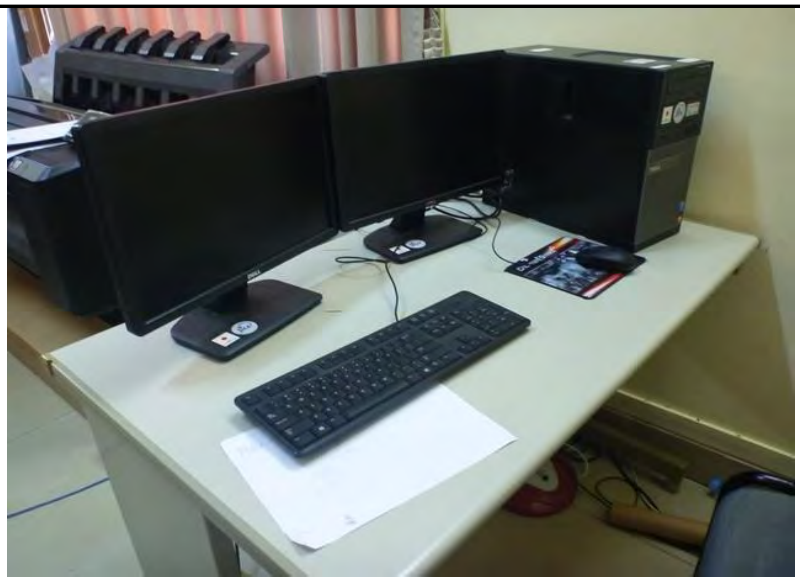
[JICA Assessment Number]
14-3-002740
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002740
[Equipment Name]
UPS
[Model]
GXT-2000MTPLUS230
[Acquisition Date]
2014/5/16
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002741
[Equipment Name]
NAS Desktop computer
[Model]
DEiLL OPTIPLEX 9020
[Acquisition Date]
2015/2/11
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC



[JICA Assessment Number]
14-3-002741
[Equipment Name]
NAS Desktop computer
[Model]
DEiLL OPTIPLEX 9020
[Acquisition Date]
2015/2/11
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC



[JICA Assessment Number]
14-3-002741
[Equipment Name]
NAS Desktop computer
[Model]
DEiLL OPTIPLEX 9020
[Acquisition Date]
2015/2/11
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002742
[Equipment Name]
NAS HDD
[Model]
D-Link ShareCenter
[Acquisition Date]
2014/6/9
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

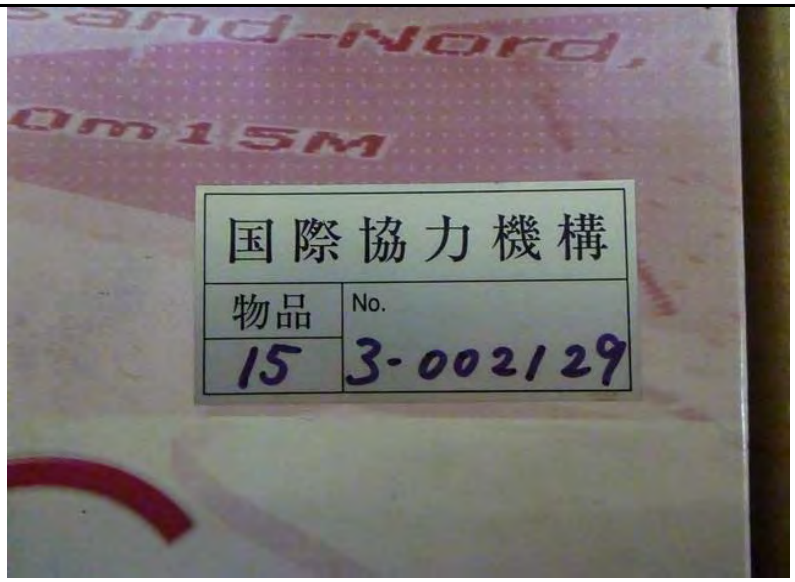
[JICA Assessment Number]
14-3-002742
[Equipment Name]
NAS HDD
[Model]
D-Link ShareCenter
[Acquisition Date]
2014/6/9
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
14-3-002742
[Equipment Name]
NAS HDD
[Model]
D-Link ShareCenter
[Acquisition Date]
2014/6/9
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002128
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002128
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002128
[Equipment Name]
Tidal Gauge (Temporary site)
[Model]
RT710-W
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC



[JICA Assessment Number]
15-3-002129
[Equipment Name]
ENC Production Software
[Model]
SevenCs,FME
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002129
[Equipment Name]
ENC Production Software
[Model]
SevenCs,FME
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002129
[Equipment Name]
ENC Production Software
[Model]
SevenCs,FME
[Acquisition Date]
2016/2/23
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002130
[Equipment Name]
Unmanned Areial Vehicle (DRONE)
[Model]
PHANTOM3
[Acquisition Date]
2016/3/10
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002130
[Equipment Name]
Unmanned Areial Vehicle (DRONE)
[Model]
PHANTOM3
[Acquisition Date]
2016/3/10
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

[JICA Assessment Number]
15-3-002130
[Equipment Name]
Unmanned Areial Vehicle (DRONE)
[Model]
PHANTOM3
[Acquisition Date]
2016/3/10
[Storage Place]
MPWT/WD
[Remarks]
Purchased via AAC

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer at 2nd ENC training in Japan and Philippine

Name :

Date : 28 July 2014 ~ 23 Aug 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Tools	ENC Designer	Digitizing Point-Line-Area for ENC (Geometry)		✓			
		Editing and managing Node-Edge		✓			
		Creating and changing S-57 bject and attribute		✓			
		Managing ENC (filter, duplicate)		✓			
		Using Raster image in ENC Designer		✓			
		Correcting errors and warnings from ENC Analyzer		✓			
	ENC Analyzer	Checking error and warning		✓			
	ENC Optimizer	Optimizing ENC file		✓			
	ENC Referencer	Mapping raster image and creating .ref file		✓			
	ENC Manager	Creating exchange set		✓			
		Updating ENC		✓			
	ENC Cartographer	Producing paper chart from ENC		✓			
		Plotting paper chart		✓			
FME Tools	FME S-57 Writer	Transforming CSV, DWG etc. to S-57 objects and attributes			✓		
		Making data flow and relation in FME			✓		
ETC.	ORCA Master	Display and explore ENC file in ECDIS system			✓		
		Simulating ECDIS system (ship movement sound caution)			✓		
	ENC CD	Creating and checking ENC CD (Edition and Update)		✓			
	Technical visit	Learning about process of making nautical chart and ENC in NAMRIA		✓			

Signature

Date 22 August 2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer at 2nd ENC training in Japan and Philippine

Name : MAK. SAMNANG Date : 28 July 2014 ~ 23 Aug 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Tools	ENC Designer	Digitizing Point-Line-Area for ENC (Geometry)		✓			
		Editing and managing Node-Edge		✓			
		Creating and changing S-57 bject and attribute		✓			
		Managing ENC (filter, duplicate)		✓			
		Using Raster image in ENC Designer		✓			
		Correcting errors and warnings from ENC Analyzer					
	ENC Analyzer	Checking error and warning	✓				
	ENC Optimizer	Optimizing ENC file	✓				
	ENC Referencer	Mapping raster image and creating .ref file		✓			
	ENC Manager	Creating exchange set		✓			
		Updating ENC	✓				
	ENC Cartographer	Producing paper chart from ENC	✓				
		Plotting paper chart	✓				
FME Tools	FME S-57 Writer	Transforming CSV, DWG etc. to S-57 objects and attributes		✓			
		Making data flow and relation in FME		✓			
ETC.	ORCA Master	Display and explore ENC file in ECDIS system	✓				
		Simulating ECDIS system (ship movement sound caution)	✓				
	ENC CD	Creating and checking ENC CD (Edition and Update)	✓				
	Technical visit	Learning about process of making nautical chart and ENC in NAMRIA		✓			

Signature _____

Date 22 Aug 2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Ros Sovannarith Date : 15 DEC 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation		✓			
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition		✓			
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion	✓				
		SONIC control 2000 usage during Data acquisition	✓				
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews		✓			
		Seafloor sampling	✓				
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation	✓				
		Temporary Tide gauge data saving and backup		✓			
Land Survey	Leveling	Tripod setting for leveling	✓				
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII)		✓			
		Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature RSA

Date 22. 12. 2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : SOK VANNAK

Date : 17 NOV 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation–Uninstallation		✓			
		DGPS positioning and heading system Installation–Uninstallation		✓			
		Motion sensor Installation–Uninstallation		✓			
		SIM–Junction box–GPS receiver–Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic–Hardware Setup, Plan line, MTX) to do Data acquisition		✓			
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews			✓		
		SB system data acquisition			✓		
		SB bar check			✓		
	Tidal Observation	Temporary Tide gauge Installation–Uninstallation		✓			
		Temporary Tide gauge data saving and backup		✓			
		Relation between Hydrographic survey – Tidal observation – Land survey		✓			
ADCP	ADCP Data acquisition and processing	ADCP sytem with GPS Installing–Uninstalling		✓			
		ADCP Setup by SonUtility			✓		
		ADCP data acquisition by CurrentSurveyor			✓		
		ADCP data processing by CurrentSurveyor			✓		
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII) Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature 

Date 22 12 2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Morn

Date : 17 NOV 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation		✓			
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition		✓			
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews			✓		
		SB system data acquisition		✓			
		SB bar check		✓			
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation		✓			
		Temporary Tide gauge data saving and backup		✓			
		Relation between Hydrographic survey – Tidal observation – Land survey		✓			
ADCP	ADCP Data acquisition and processing	ADCP sytem with GPS Installing-Uninstalling		✓			
		ADCP Setup by SonUtility		✓			
		ADCP data acquisition by CurrentSurveyor		✓			
		ADCP data processing by CurrentSurveyor		✓			
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII)		✓			
		Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature

Date 22-Dec-2014.

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : LONG BUNLONG.

Date : 17 NOV 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation		✓			
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition		✓			
		HYPACK Survey and HYSWEEP Survey usage during Data acquisition		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews		✓			
		SB system data acquisition		✓			
		SB bar check			✓		
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation			✓		
		Temporary Tide gauge data saving and backup		✓			
		Relation between Hydrographic survey – Tidal observation – Land survey			✓		
ADCP	ADCP Data acquisition and processing	ADCP sytem with GPS Installing-Uninstalling			✓		
		ADCP Setup by SonUtility			✓		
		ADCP data acquisition by CurrentSurveyor			✓		
		ADCP data processing by CurrentSurveyor			✓		
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII) Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature _____

Date 22/Dec/2014.

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : AN. VUTHEA

Date : 15 DEC 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation	✓				
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting					
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition	✓				
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews		✓			
		Seafloor sampling		✓			
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation		✓			
		Temporary Tide gauge data saving and backup	✓				
Land Survey	Leveling	Tripod setting for leveling	✓				
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII)		✓			
		Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature _____

Date 22-12-2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : MAK SAMNANG

Date : 15 DEC 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation	✓				
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition	✓				
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews	✓				
		Seafloor sampling	✓				
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation		✓			
		Temporary Tide gauge data saving and backup		✓			
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII)		✓			
		Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature B. Nak

Date 22-12-2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : CHHIM RASMEY

Date : 15 DEC 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation		✓			
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition		✓			
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion		✓			
		SONIC control 2000 usage during Data acquisition		✓			
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews		✓			
		Seafloor sampling		✓			
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation		✓			
		Temporary Tide gauge data saving and backup		✓			
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII)		✓			
		Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature _____

Date 22-12-2014

Cambodia ENC 2014 – Sihanoukville harbor and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : KY CHANNA

Date : 17 NOV 2014 ~ 19 DEC 2014

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Hydrographic Survey	Hydrographic Survey Data Acquisition	Sonic2020 transducer and Micro X Installation-Uninstallation		✓			
		DGPS positioning and heading system Installation-Uninstallation		✓			
		Motion sensor Installation-Uninstallation		✓			
		SIM-Junction box-GPS receiver-Computer equipment cable connecting		✓			
		Prepare HYPACK project (Geodetic-Hardware Setup, Plan line, MTX) to do Data acquisition	✓				
		HYPACK Survey and HYSWEEP Survey usage during Data acquistion	✓				
		SONIC control 2000 usage during Data acquisition	✓				
		Using Minos X SVP for Sound velocity profiling		✓			
		Practical Navigation with crews		✓			
		SB system data acquisition		✓			
		SB bar check		✓			
	Tidal Observation	Temporary Tide gauge Installation-Uninstallation		✓			
		Temporary Tide gauge data saving and backup		✓			
		Relation between Hydrographic survey – Tidal observation – Land survey		✓			
ADCP	ADCP Data acquisition and processing	ADCP sytem with GPS Installing-Uninstalling			✓		
		ADCP Setup by SonUtility			✓		
		ADCP data acquisition by CurrentSurveyor			✓		
		ADCP data processing by CurrentSurveyor			✓		
Land Survey	Leveling	Tripod setting for leveling		✓			
		Calculate the tollerance accuracy		✓			
	GNSS Observation	Tripod setting for GNSS observation		✓			
		GNSS setting and using controller (Leica 1230 and Topcon HiPerII) Computing positioning and height of unknown point from observation data processing by GrafNet		✓			

Signature _____

Date 22.12.2014

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Sok Vannak

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format		✓			
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)		✓			
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)		✓			
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)			✓		
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combimed node, edge)			✓		
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)			✓		
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)			✓		
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data			✓		
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification			✓		
	ENC Manager	Creating exchange set for ENC CD			✓		
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature 

Date 20.04.2015

Chhim MORN.

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name :

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format			✓		
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)			✓		
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)			✓		
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)			✓		
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)			✓		
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data			✓		
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification			✓		
	ENC Manager	Creating exchange set for ENC CD			✓		
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature

Date 22-04-2015.

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : LONG BUNLONG.

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format		✓			
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)		✓			
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)		✓			
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification		✓			
	ENC Manager	Creating exchange set for ENC CD			✓		
	ENC Cartographer	Creating & Editing paper chart layout file			✓		
		Plotting paper chart		✓			

Signature _____

Date 22 April 2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : CHHIM RASMEY

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format		✓			
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)		✓			
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)		✓			
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M NSYS, C_AGGR etc.)			✓		
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification		✓			
	ENC Manager	Creating exchange set for ENC CD		✓			
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature _____

Date 22.04.2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : KY CHANNA

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format	✓				
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)	✓				
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)	✓				
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combined node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification		✓			
	ENC Manager	Creating exchange set for ENC CD		✓			
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature _____

Date 20. April. 2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : AN. VUTHEA Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format		✓			
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)		✓			
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)	✓				
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer	✓				
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate	✓				
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)	✓				
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)	✓				
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification	✓				
	ENC Manager	Creating exchange set for ENC CD	✓				
	ENC Cartographer	Creating & Editing paper chart layout file	✓				
		Plotting paper chart	✓				

Signature Sang

Date 20-04-2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Ros. Sovannarith

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format			✓		
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)			✓		
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)			✓		
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer		✓			
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)			✓		
		Combining FME converted ENC cell files to ENC cell by duplicate			✓		
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)		✓			
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification		✓			
	ENC Manager	Creating exchange set for ENC CD		✓			
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature _____

Date 20. April, 2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : MAK SAMNANG

Date : 16 FEB 2015 ~ 10 APR 2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
ENC Production	FME S-57 Writer	Convert csv data (ASCII) to S-57 format		✓			
		Converting CSV file (ASCII) to S-57 format format (Point Primitive)	✓				
		Converting DWG file (VECTOR) to S-57 format (Line & Area Primitive)		✓			
	ENC Referencer	Mapping image file (RASTER) to generate .ref file for using as the background in ENC Designer	✓				
	ENC Designer	Loading Raster image file to use as the background		✓			
		Creating new cell and set for cell information (Compilation scale, Producer code, Cell code etc.)		✓			
		Combining FME converted ENC cell files to ENC cell by duplicate		✓			
		Editing Spatial object (isolated node, combimed node, edge)		✓			
		Creating & Editing Feature object (DEPCNT, DEPARE, LNDARE, BUISLG, BOYXXX, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)	✓				
		Creating & Editing object attribute (CATCAM, COLOUR, VALDCO, BOYSHP, CONVIS, DRVAL1, LIGHTS, TOPMAR, M_COVR , M_NSYS, C_AGGR etc.)	✓				
		Creating Relationship between Feature object (Master/Slave, Peer to Peer)		✓			
		Digitizing create ENC cell data from existing paper chart		✓			
	ENC Optimizer	Optimizing created ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of created ENC cell data with S-57 specification	✓				
	ENC Manager	Creating exchange set for ENC CD		✓			
	ENC Cartographer	Creating & Editing paper chart layout file		✓			
		Plotting paper chart		✓			

Signature _____

Date 20.04.2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : AN VUTHEA

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge	✓				
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data	✓				
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.		✓			
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.	✓				
	ENC Cartographer	Creating & Editing paper chart layout file.	✓				
		Checking paper chart with paper	✓				
		Setting up plotter and plotting paper chart.	✓				

Signature Sang

Date 28-09-2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Ros Sovannarith

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data		✓			
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.	✓				
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.		✓			
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.		✓			
		Checking paper chart with paper	✓				
		Setting up plotter and plotting paper chart.	✓				

Signature RSovan

Date 26.08.2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : CHHIM RASMEY

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data		✓			
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.			✓		
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.		✓			
		Checking paper chart with paper		✓			
		Setting up plotter and plotting paper chart.		✓			

Signature _____

Date 26/08/2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : KY Channa

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data	✓				
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.	✓				
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.		✓			
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.	✓				
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data			✓		
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.			✓		
		Buring ENC exchange set to CD-ROM.			✓		
	ENC Cartographer	Creating & Editing paper chart layout file.	✓				
		Checking paper chart with paper		✓			
		Setting up plotter and plotting paper chart.		✓			

Signature

Date 26-08-2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : LONG BUNLONG

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data		✓			
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.		✓			
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.		✓			
		Checking paper chart with paper		✓			
		Setting up plotter and plotting paper chart.		✓			

Signature

Date 26/08/2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Nak Samnang

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge	✓				
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data	✓				
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.	✓				
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.	✓				
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.	✓				
		Checking paper chart with paper	✓				
		Setting up plotter and plotting paper chart.	✓				

Signature N. Nak

Date 26.08.2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Chhim Morn

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data		✓			
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.			✓		
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.			✓		
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.		✓			
		Checking paper chart with paper		✓			
		Setting up plotter and plotting paper chart.		✓			

Signature

Date 04 Aug 2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : SoK Vannak

Date : Aug 3,2015 ~ Aug 27,2015

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
LAT Convert	LAT knowledge	Learning about LAT knowledge		✓			
	HYPACK	Using XYZ Utility to shift Z0 data to LAT data		✓			
ENC Production	FME S-57 Writer	Convert additional data to S-57 format file.		✓			
	ENC Referencer	Mapping image file (RASTER) from Indian 1960 to UTM 48N.		✓			
	ENC Designer	Correcting Critical, Error, Warning from ENC Analyzer result.			✓		
		Adding Moving or deleting depth sounding position in order to not to overlap with depth contour.		✓			
	ENC Optimizer	Applying Melting SOUNDING and setting SCAMIN with to optimize finished ENC cell data		✓			
	ENC Analyzer	Analyzing and Checking validation of finished ENC cell data with S-57 specification.		✓			
	ENC Manager	Creating ENC exchange set from ENC data cell.		✓			
		Buring ENC exchange set to CD-ROM.		✓			
	ENC Cartographer	Creating & Editing paper chart layout file.		✓			
		Checking paper chart with paper		✓			
		Setting up plotter and plotting paper chart.		✓			

Signature SoK

Date 01. Aug. 2015

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : LONG BUNLONG.

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve			✓		
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document			✓		
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute			✓		
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images		✓			
		Importing Shapefile to AutoCAD and separating layers by attribute value			✓		
Raster data processing	Satellite Image Processing	Adding Satellite images in Map document			✓		
		Assigning band number to RGB channel in ArcMAP			✓		
		Pansharpening satellite image			✓		
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile		✓			
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)			✓		
	Geometric Correction	Geometric correction of raster image			✓		
		Saving modified raster image to another file or dataformat			✓		

Signature BL.

Date 02/06/2016

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Chhim MORN.

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve		✓			
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document		✓			
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute		✓			
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images		✓			
		Importing Shapefile to AutoCAD and separating layers by attribute value		✓			
Raster data processing	Satellite Image Processing	Adding Satellite Images in Map document		✓			
		Assigning band number to RGB channel in ArcMAP		✓			
		Pansharpening satellite image		✓			
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile			✓		
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)			✓		
	Geometric Correction	Geometric correction of raster image			✓		
		Saving modified raster image to another file or dataformat			✓		

Signature _____

Date 02-06-2016

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Sok Vannak

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve			✓		
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document		✓			
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute			✓		
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images			✓		
		Importing Shapefile to AutoCAD and separating layers by attribute value		✓			
Raster data processing	Satellite Image Processing	Adding Satellite images in Map document			✓		
		Assigning band number to RGB channel in ArcMAP		✓			
		Pansharpening satellite image		✓			
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile		✓			
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)		✓			
	Geometric Correction	Geometric correction of raster image		✓			
		Saving modified raster image to another file or dataformat		✓			

Signature Sok

Date 02/06/2016

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Ros . Sovannarith

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP			✓		
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve		✓			
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document			✓		
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute		✓			
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images		✓			
		Importing Shapefile to AutoCAD and separating layers by attribute value			✓		
Raster data processing	Satellite Image Processing	Adding Satellite Images in Map document		✓			
		Assigning band number to RGB channel in ArcMAP			✓		
		Pansharpening satellite image			✓		
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile			✓		
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)			✓		
	Geometric Correction	Geometric correction of raster image				✓	
		Saving modified raster image to another file or dataformat				✓	

Signature _____

Date 02 . 06 . 2016

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : CHHIM BASMEY Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve		✓			
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document		✓			
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute		✓			
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images		✓			
		Importing Shapefile to AutoCAD and separating layers by attribute value		✓			
Raster data processing	Satellite Image Processing	Adding Satellite images in Map document		✓			
		Assigning band number to RGB channel in ArcMAP		✓			
		Pansharpening satellite image			✓		
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile		✓			
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)		✓			
	Geometric Correction	Geometric correction of raster image		✓			
		Saving modified raster image to another file or dataformat		✓			

Signature _____

Date 02.06.2016

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : AN UUTHEA

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve		✓			
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document		✓			
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute	✓				
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images		✓			
		Importing Shapefile to AutoCAD and separating layers by attribute value		✓			
Raster data processing	Satellite Image Processing	Adding Satellite images in Map document		✓			
		Assigning band number to RGB channel in ArcMAP		✓			
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	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile		✓			
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)		✓			
	Geometric Correction	Geometric correction of raster image		✓			
		Saving modified raster image to another file or dataformat		✓			

Signature Savy

Date 02-06-2016.

Cambodia ENC 2014 – Sihanoukville harbour and surroundings

Questionnaire of Understanding Level in Technology Transfer

Name : Mak. Samnang

Date : Apr 19,2016 ~ Jun 1,2016

Technology Transfer Topic			Understanding Level (Please put check mark)				Comments
			Excellent	Good	Fair	Poor	
Vector data processing	Basis of ArcGIS	Minimum components of shapefile to open in ArcMAP		✓			
		Setting the coordinate system		✓			
		Creating New Shapefile		✓			
		Basic operation of Geoprocessing tools such as Dissolve		✓			
		Basic operation of drawing and editing tool		✓			
		Importing AutoCAD .dwg file into Map document	✓				
	Drawing Coastlines for ENC	Creating feature template in order to draw features with attribute		✓			
		Drawing coastline and 0m contour (low tide) line by interpreting satellite images	✓				
		Importing Shapefile to AutoCAD and separating layers by attribute value		✓			
Raster data processing	Satellite Image Processing	Adding Satellite images in Map document	✓				
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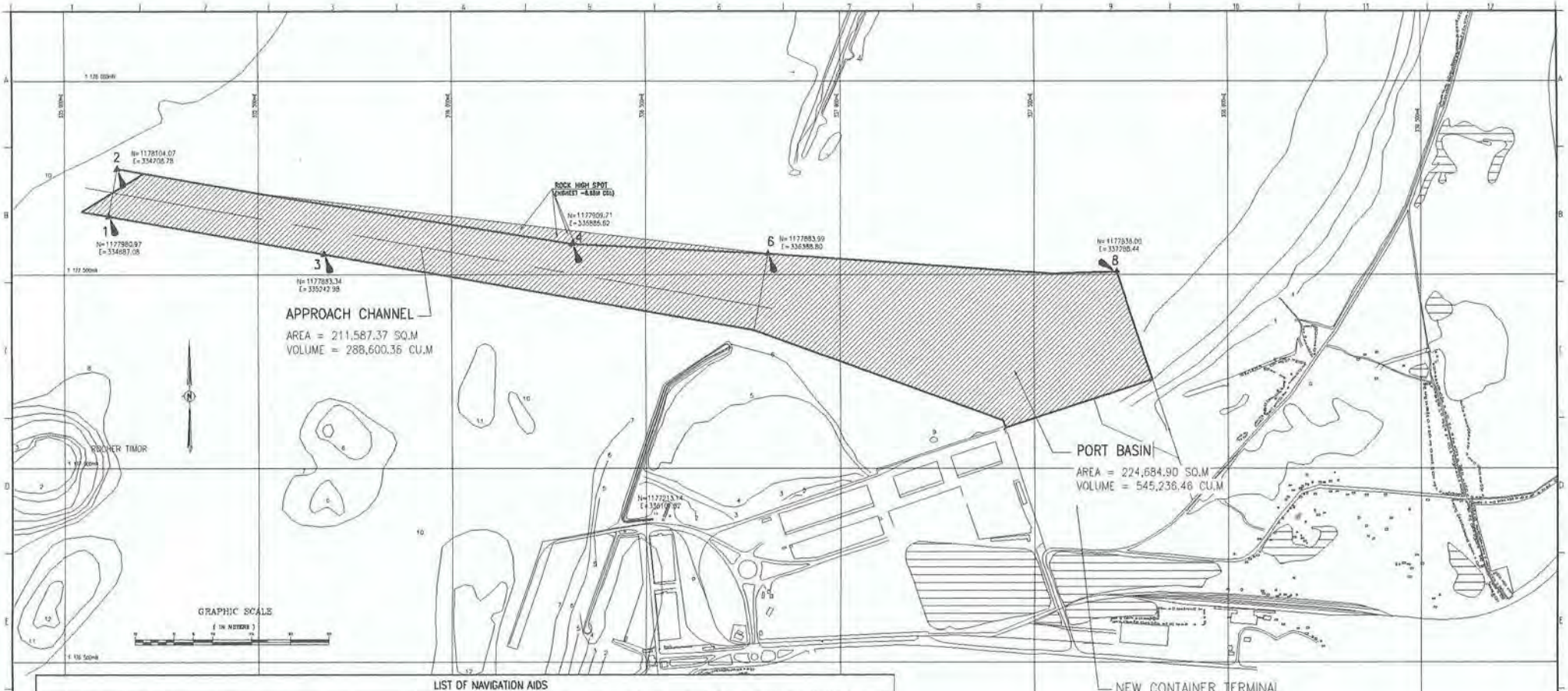
	Accuracy Inspection	Adding XY ascii data such as .csv file into Map document and converting it to shapefile		✓			
		Checking accuracy of georeferenced raster data such as satellite image using ground control points(GCPs)		✓			
	Geometric Correction	Geometric correction of raster image		✓			
		Saving modified raster image to another file or dataformat		✓			

Signature M. Nak

Date 02.06.2016



LIST OF NAVIGATION AIDS

NO.	AIDS	LIGHT									POWER SOURCE	ACCESSORIES & REMARKS	CO-ORDINATES	
		LENS (mm)	LAMP	LIGHT CHARACTER	LIGHT COLOR	FIXED INTENSITY (Cd)	EFFECTIVE INTENSITY (Cd)	LUMINOUS RANGE T 0.74 (N.M.)	LUMINOUS RANGE T 0.85 (N.M.)	FOCAL PLANE Ht (m)			N	E
1	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	G	44	30	3.4	4.4	3.2	WAVE ACTIVATED GENERATOR SOLAR PANEL : 2 pcs. BATTERY : 12 V , 130 AH.	RADAR REF. TOPMARK / DAY MARK		
2	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	R	44	30	3.4	4.4	3.2	" "	" "		
3	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	G	44	30	3.4	4.4	3.2	" "	" "		
4	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	R	44	30	3.4	4.4	3.2	" "	" "		
5	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	G	44	30	3.4	4.4	3.2	" "	" "		
6	LIGHTED BUOY	123	12 V 0.77A	F1.4S 0.5+3.5	R	44	30	3.4	4.4	3.2	" "	" "		
8	LIGHTED BUOY	123	12 V 0.75A	Fl (9) 15S	W	50	30	3.4	4.4	3.2	" "	" "		

REMARKS

DREDGING AREA

NAVIGATION BUOY LOCATION

NOTES:
1. ALL CONTOUR DEPTHS SHOWN ARE TAKEN FROM JICA STUDY , MAY 1996 AND ARE REDUCED TO ADMIRAL CHART DATUM (ACD) WHICH IS 0.47 M BELOW
2. ALL COORDINATES ARE BASED ON WGS84
3. ALL DIMENSIONS ARE IN METERS

REV. NO.	DESCRIPTION	CHECKED	DATE	APPROVE	DATE

PORT AUTHORITY OF SIHANOUKVILLE
MINISTRY OF PUBLIC WORKS & TRANSPORT
THE ROYAL GOVERNMENT OF CAMBODIA

CONSULTANTS : PACIFIC CONSULTANTS INTERNATIONAL (PCI)

CONTRACTOR : PENTA OCEAN - ITALIAN THAI JOINT VENTURE

PROJECT : SIHANOUKVILLE PORT URGENT REHABILITATION PROJECT
CONTRACT : CIVIL WORKS FOR CONTAINER TERMINAL
SECTION : D : NAVIGATION AIDS
GENERAL LOCATION PLAN

APPROVED
BY: (RESIDENT ENGINEER)
DATE: 08-JAN-07

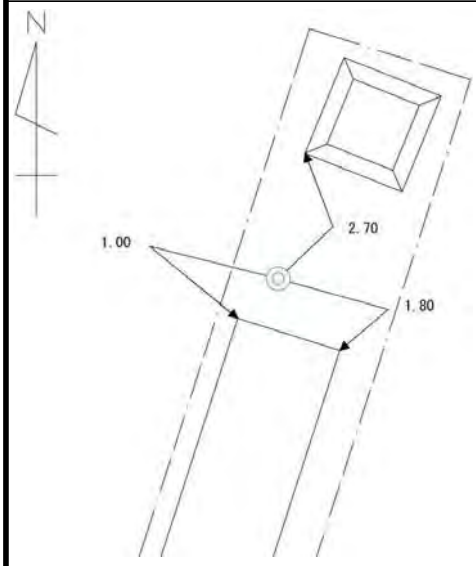
DESIGNED : -
DRAWN : RITHY
CHECKED : KURABARA
DATE : 08-JAN-07
SCALE : 10,000
DWG. NO. : -
SHEET NO. : -

Appendix 11 : BM data of PAS

DESCRIPTION &RESULT OF GCP-GNSS

Station Name	PAS-BM	Geographical Coordinates WGS84		Latitude	Longitude	Ellipsoidal H. (m)
				10° 38' 44.91523" N	103° 30' 05.85353" E	-12.3602
Project UTM48		Horizontal Coordinates		Northing (m)	Easting (m)	National datum level (m)
				1,177,212.883	336,102.030	2.14
Data	October, .2013	Eccentric point	P1			
			P2			

Site Sketch



PLEIADES Image (Scale: approx . 1/10,000)

Site Photo

PLEIADES Image (Scale: approx. 1/1,000)

Remarks:

This result will be created in collaboration with JICA and MPWT/WD in October, 2013.

Acquisition of Satellite Image: 5,December,2012

Satellite Scene No.:DS_PHR1A_201212050345520_SE1_PX_E103N10_0717_05281

Type of Satellite Image: PLEIADES 16Bit 0.5m PAN-SHARPEN(4BANDS)