



Our Ref: PJQ250202 Rev 1

25 February 2026

Hyundai Engineering Co.,Ltd.

Absheron Phase 2 - CPF Project

Dear Sir,

RE : Absheron Phase 2 - CPF Project - Telecommunication and Security System

With reference to the above requisition, we would like to express our sincere gratitude for inviting us to quote and to give us an opportunity to be involved in this project.

The full set of proposal consists of the following documents:

1. Revised Priced Quotation
2. Revised Unpriced Quotation

Vector InfoTech Pte Ltd is the System Integrator that can supply the whole Telecommunication System.

We hope the information provided will let Hyundai Engineering Co.,Ltd. have confidence in us and allow us to have the opportunity to be directly involved in this project.

We look forward to your favorable reply and should you have further query, please feel free to contact the undersigned.

Thank You.

Royston Yap Boon Ping

Sales Manager

Contact No.: (65) 6356-7333

Fax No.: (65) 6356-7322

Mobile No.: (65) 9177- 8468

Email: royston.yap@vectorinfotech.com



1 set of Best Offer Proposal (with breakdown) for RFQ



Hyundai Engineering Co.,Ltd.

Absheron Phase 2 - CPF Project

Telecommunication and Security System

Quotation No: PJQ250202

Rev. 1

1	25-Feb-26	WGA	BMM	Royston Yap Boon Ping	Koon Siang Goh	Telecommunication and Security System
0	13-Jan-26	WGA	BMM	Koon Siang Goh	Koon Siang Goh	Telecommunication and Security System
Rev	Date	Prep'D	Chk'D	Sales-in-Charge	Head of Sales & Proposal	Description



Vector InfoTech

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Vector InfoTech Private Limited

Blk 3015A, Ubi Road 1, #05-13, Singapore 408705

Tel: +65 6356 7333 Fax: +65 6356 7322 Website: www.vectorinfotech.com

Company ROC: 199403934Z G.S.T. Registration No: M2-0125077-3

Client:	Hyundai Engineering Co.,Ltd.
Project Name:	Absheron Phase 2 - CPF Project
Job No:	-
Quotation No:	PJQ250202 Rev.1
Date :	25-Feb-26
Status:	EPC Bidding

Price Summary

S/N	Description	Unit	Qty	Unit Price in USD	Total Price in USD	Remarks
	A. System Equipments					
A1	Data Network System	LOT	1	271,571.00	271,571.00	D-link
A2	PAGA System	LOT	1	1,224,693.00	1,224,693.00	Industronic
A3	Radio System	LOT	1	464,415.00	464,415.00	Cobham Satcom
A4	Mobile 4G LTE System	LOT	1	351,227.00	351,227.00	Pepperl+Fuchs
A5	CCTV System	LOT	1	927,625.00	927,625.00	Dahua
A6	Telephone & SCS System	LOT	1	150,960.00	150,960.00	Koontech
A7	Fiber Optic Network System	LOT	1	27,328.00	27,328.00	Tekpan
A8	GPS	LOT	1	7,261.00	7,261.00	Sapling
A9	Meteorological System	LOT	1	46,564.00	46,564.00	Vaisala
A10	ACS(Access Control System) & ePOB	LOT	1	251,679.00	251,679.00	Dahua
A11	Entertainment System	LOT	1	104,166.00	104,166.00	Cisco
A12	Security System - Security CCTV System	LOT	1	632,568.00	632,568.00	Dahua
A13	Security System - ACS(Access Control System)	LOT	1	145,877.00	145,877.00	Dahua
A14	Security System - Intrusion Detection System	LOT	1	795,604.00	795,604.00	Senstar

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Price Summary

S/N	Description	Unit	Qty	Unit Price in USD	Total Price in USD	Remarks
A15	Video Conference System	LOT	1	98,222.00	98,222.00	Cisco
A16	Other Systems	LOT	1	28,368.00	28,368.00	
A17	Commissioning Spare	LOT	1	626.00	626.00	
	Sub Total For A				5,528,754.00	
	B. Engineering & Others					
B1	Project Management and Engineering	LOT	1	292,000.00	292,000.00	
B2	Factory Acceptance Test (Local)	LOT	1	35,000.00	35,000.00	
B3	Packing and Handling (for sea freight)	LOT	1	61,900.00	61,900.00	
	Sub Total For B				388,900.00	
	Grand Total				5,917,654.00	
	C. Optional Items					
C1	2years Maintenance Spares	LOT	1	136,042.00	136,042.00	
C2	Training for the above systems - Training documentation included for max 10 pax - 16 Day training *1 x Trainer, one trip	LOT	1	56,800.00	56,800.00	
C3	Supervising Manday rate	LOT	1			
	For Normal Working Day (Local Time) (8 Hour per Day excluding lunch time)	DAY	1	1,400.00	1,400.00	

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S/N	Description	Unit	Qty	Unit Price in USD	Total Price in USD	Remarks
	Weekend /Public Holidays (LocalTime) (8 hours, excluding lunch hour)	DAY	1	2,800.00	2,800.00	
	For Traveling & Waiting	DAY	1	700.00	700.00	
C4	Manufacturer Supervising Manday rate	LOT	1			
	For Normal Working Day (Local Time) (8 Hour per Day excluding lunch time)	DAY	1	2,800.00	2,800.00	
	Weekend /Public Holidays (LocalTime) (8 hours, excluding lunch hour)	DAY	1	5,600.00	5,600.00	
	For Traveling & Waiting	DAY	1	1,400.00	1,400.00	
	NOTE: The above Fees does not include Air Fare, Accomodations, meals & traveling charges which will be claim according to actual receipts and reimbursed against invoice +10% for administration charges.					

Terms & Conditions:

Delivery Lead Time : 36 to 40 weeks upon approval of Vendor Print

Delivery Incoterm : FOB Singapore except Radio and LTE which is DDP in project site

Payment Terms : Please see Standard Terms & Conditions

Exclusions :

- 1.) VAT or any surcharge taxes are excluded in our offer whenever applicable it shall be added on top of all the quoted prices.
- 2.) Equipment Installation at site or any kind of Civil/foundation works, trenching and backfilling of direct burried FoC cables not included in our offer.



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A1 Data Network System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
1.1	Data Cabinet	1	LOT	88,738.00	88,738.00	
1.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	8	NO			Tekpan
	48C FOPP					
1.1.2	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	12	NO			Fibertek BOM requires 2 per data cabinet x 8 cabinets = 16. Vendor offers 12. Not compliant. Please add 4x 48C FOPP (LC duplex SM) and accessories.
1.1.3	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	576	NO			Fibertek Based on 16x 48C FOPP, total pigtails should be 768. Vendor quoted 576. Please add +192 pigtails.
1.1.4	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	46	NO			Fibertek
	Firewall 1 no of Firewall has been considered. Please confirm the required quantity.					
1.1.5	P/N: DFL-870M UTM Firewall, 10-port GE, 2-port Combo Uplink GE UTP/SFP, 2GB Memory & 4GB Flash Firewall Throughput: 4Gbps IPS Throughput: 2Gbps AVThroughput: 2Gbps VPN Throughput: 1Gbps QoS Throughput: 2Gbps	2	NO			D-link BOM calls for firewall with IPS. Vendor model lists IPS/QoS figures. Please confirm HA/redundant pair and licenses (IPS/AV/VPN) to match project availability requirements.
1.1.6	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	4	NO			D-link

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A1 Data Network System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Distribution Switch (24 Port) 1no of Distribution switch has been considered (Admin Building)					
1.1.7	P/N: DGS-3130-30S 24 SFP ports + 2 10GBase-T ports + 4 10G SFP+ ports, L3 Stackable Managed Switch	2	NO			D-link
1.1.8	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	48	NO			D-link
	Access Switch (48 port)					
1.1.9	P/N: DGS-1530-52P 52-port Gigabit Layer 3 Lite Stackable Smart Managed PoE (370W) Switch with 4-port 10G Uplinks, 48 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 10G SFP+	12	NO			D-link
1.1.10	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	24	NO			D-link
	UTP Patch Panel					
1.1.11	P/N: FSTP-148BL-BK FiberTek Ethernet Patch Panel:Blank 48 Port Shielded,1U, 19 inch Patch Panel, Black	12	NO			Fibertek
1.1.12	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	576	NO			Fibertek
1.1.13	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	576	NO			Fibertek
	Voice Gate Way					



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A1 Data Network System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Note: Voice Gate way is not necessary as the proposed equipment (including Telephone System) is IP-based. Otherwise, customer to clarify the purpose/provision of voice gate way and vector will provide accordingly.					
1.2	Data/Voice outlet (4Port)	325	SET	9.00	2,925.00	Fibertek
1.2.1	P/N: FPL-201-4P FiberTek Ethernet Faceplate:Faceplate, 4 port with shutter, 86mm x 86mm, white	1	NO			BOM specifies 4-port outlet mounted in standard 4"x4" electrical box with dual outlet power • socket. Vendor provides 86x86 faceplate/back box only; power socket not included. Not compliant—please include dual • power socket and 4"x4" box or confirm electrical scope split
1.2.2	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	4	NO			
1.2.3	P/N: FPL-201-BOX FiberTek Ethernet Faceplate:Back box for 86 Type Faceplate	1	NO			
1.3	Wifi Access point (Indoor)	41	SET	300.00	12,300.00	D-link
1.3.1	P/N:DAP-X2810 Wireless AX1800 WIFI 6 (2 x 2) Dual-Band INDOOR Access Point	1	NO			
						BOM requires ATEX Zone 1, Gas Group IIA, T3. Vendor to confirm that the ATEX certification includes the complete assembly (AP + enclosure + antennas)
1.4	Wifi Access point (Exproof)	14	SET	11,972.00	167,608.00	
1.4.1	P/N: C9124AXE-ROW Wi-Fi 6 Outdoor AP, External Ant, -ROW Regulatory Domain	1	NO			Cisco
1.4.2	P/N: CON-SNT-C9124ROW SNTC-8X5XNBD Wi-Fi 6 Outdoor AP, External Ant, -ROW R	1	NO			Cisco

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S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
1.4.3	P/N: AIR-DNA-E-3Y Wireless Cisco DNA On-Prem Essential, 3Y Term Lic	1	NO			Cisco
1.4.4	P/N: AIR-MNT-VERT1 Vertical pole/wall mounting kit for Catalyst APs	1	NO			Cisco
1.4.5	P/N: GLC-LH-SMD= 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	2	NO			Cisco
1.4.6	Zone 1 Ex d PoE Powered iWAP Enclosure	1	NO			Extronics
1.4.7	P/N: IANT216M Omni-directional dual-band WiFi antenna, w/Plug connector, direct mount	4	NO			Extronics
1.4.8	P/N: IWAPMB03 iWAP107/iRFID101 Pole Mount Bracket kit/Zone 1	1	NO			Extronics
	Total For Data Network System In USD FOB Singapore				271,571.00	
	Optional					
1.5	Access Point Controller	1	SET	303.00	303.00	D-link
1.5.1	P/N: DNH-100 Nuclias Connect Hub - Manage up to 100 Wireless Access Point	1	NO			



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A1 Data Network System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Data Network System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
2.1	PAGA Central Cabinet	1	SET	210,640.00	210,640.00	
2.1.1	INTRON-X node equipped with: 1x XCO (IP System Controller Module) basic software, 12 I/Os, in A+B configuration, internal audio processing function (IAP) - Interface for Telephone System (SIP Activation) 2x XPS (Power Supply Module) 90-264VAC - 48VDC, 10A, in 1+1 configuration 2x ATS (Automatic Transfer Switch) switches single phase mains supply 1x XBC (IP Beacon Control Module) provides up to 4 beacon circuits (line and/or loop) 1x Modular Industrial Switch (16 RJ45, 4 Combo, 2 SFP SM) 2x XPA (IP Amplifier) Class-D, 800W (2x 400W), 2 Lines or Loops 1x XPA (IP Amplifier) Class-D, 800W (2x 400W), in N+1 configuration 3x XPAZ (Zone Selector Module) expansion up to 16 Speaker Lines or Loops 1x NER (IP Engineering Panel) touch display, speaker, microphone	1	NO			Industronic



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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	4x Cabinet Fan (temperature controlled) 1x Cabinet Light (LED, motion detector, socket) 2x Door Position Switch 1x Cabinet Thermostat 1x Power Strip (7 sockets) 1x Document Pocket (A4) 1x Surge Protection mains supply, speakers, beacons, I/Os, field call stations 1x Cabinet Labeling (type: medium) 1x Cabinet (RAL 7035) WxHxD 800x2000x800mm, Front: Glazed Door / Rear: Steel Door, Fixed Frame, 19" system, 42 RU Cabinet Base, height 100mm, loosely attached					
2.1.2	System activation	1	NO			
	Note: This cabinet is quoted as PAGA main cabinet.					
2.2	PAGA MDF Cabinet	1	SET	Included	Included	
	Note: The quoted 1 Set PAGA Cabinet under Item 2.1 already includes the Main Distribution Frame (MDF) as part of the complete assembly. A separate MDF supply is not required as it is integrated within the cabinet scope.					BOM calls for 2x MDF cabinets. Vendor notes MDF is integrated within the main cabinet and priced as 'Included'. Please confirm the integrated MDF quantity equals two independent MDF sections and provide. Otherwise, price 2x separate MDF cabinets per BOM.



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A2 PAGASystem

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
2.3a	PAGA Cabinet	5	SET	87,315.00	436,575.00	
2.3a.1	<p>INTRON-X node</p> <p>equipped with:</p> <p>1x XCO (IP System Controller Module)</p> <p>basic software, 12 I/Os, in A+B configuration,</p> <p>internal audio processing function (IAP)</p> <p>- Interface for Telephone System (SIP Activation)</p> <p>2x XPS (Power Supply Module)</p> <p>90-264VAC - 48VDC, 10A, in 1+1 configuration</p> <p>2x ATS (Automatic Transfer Switch)</p> <p>switches single phase mains supply</p> <p>1x XBC (IP Beacon Control Module)</p> <p>provides up to 4 beacon circuits (line and/or loop)</p> <p>1x Modular Industrial Switch (16 RJ45, 4 Combo, 2 SFP SM)</p> <p>2x XPA (IP Amplifier)</p> <p>Class-D, 1600W (4x 400W), 2 Lines or Loops</p> <p>1x XPA (IP Amplifier)</p> <p>Class-D, 800W (2x 400W), in N+1 configuration</p> <p>3x XPAZ (Zone Selector Module)</p> <p>expansion up to 16 Speaker Lines or Loops</p> <p>4x Cabinet Fan (temperature controlled)</p> <p>1x Cabinet Light (LED, motion detector, socket)</p> <p>2x Door Position Switch</p> <p>1x Cabinet Thermostat</p> <p>1x Power Strip (7 sockets)</p> <p>1x Document Pocket (A4)</p> <p>1x Surge Protection</p> <p>mains supply, speakers, beacons, I/Os, field call stations</p> <p>1x Cabinet Labeling (type: medium)</p> <p>1x Cabinet (RAL 7035)</p> <p>WxHxD 800x2000x800mm,</p> <p>Front: Glazed Door / Rear: Steel Door,</p> <p>Fixed Frame, 19" system, 42 RU Cabinet Base, height 100mm, loosely attached</p>	1	NO			Industronic

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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
2.3b	PAGA Cabinet	2	SET	87,315.00	174,630.00	
2.3b.1	INTRON-X node equipped with: 1x XCO (IP System Controller Module) basic software, 12 I/Os, in A+B configuration, internal audio processing function (IAP) - Interface for Telephone System (SIP Activation) 2x XPS (Power Supply Module) 90-264VAC - 48VDC, 10A, in 1+1 configuration 2x ATS (Automatic Transfer Switch) switches single phase mains supply 1x XBC (IP Beacon Control Module) provides up to 4 beacon circuits (line and/or loop) 1x Modular Industrial Switch (16 RJ45, 4 Combo, 2 SFP SM) 2x XPA (IP Amplifier) Class-D, 1600W (4x 400W), 2 Lines or Loops 1x XPA (IP Amplifier) Class-D, 800W (2x 400W), in N+1 configuration 3x XPAZ (Zone Selector Module) expansion up to 16 Speaker Lines or Loops	1	NO			Industronic

BOM requires Modular type UPS (mounted inside), backup time and batteries. Proposal description does not list UPS/back-up. This is Not compliant. Please include modular UPS inside cabinet with specified autonomy and battery details, or clarify site UPS interface.



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A2 PAGASystem

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	4x Cabinet Fan (temperature controlled) 1x Cabinet Light (LED, motion detector, socket) 2x Door Position Switch 1x Cabinet Thermostat 1x Power Strip (7 sockets) 1x Document Pocket (A4) 1x Surge Protection mains supply, speakers, beacons, I/Os, field call stations 1x Cabinet Labeling (type: medium) 1x Cabinet (RAL 7035) WxHxD 800x2000x800mm, Front: Glazed Door / Rear: Steel Door, Fixed Frame, 19" system, 42 RU Cabinet Base, height 100mm, loosely attached					
2.4	Loudspeaker 6W (8W)	126	SET	309.00	38,934.00	
2.4.1	P/N: HP-8 T 100V, RAL 7035, MP-2,5	1	NO			DNH
2.4.2	Weatherproof Junction Box, 160x160x90mm, GRP, IP66, consist of terminal blocks, cable glands, 3m cable pigtail and other accessories.	1	NO			
	Note: We have proposed 8W wall mount speaker against the 6W requirement. Customer to advice if this is acceptable.					
2.5	Loudspeaker 6W (8W) (Explosion proof)	7	SET	670.00	4,690.00	
2.5.1	P/N: DSP-15 EExmNT IIB, 100V, 8W, 2xM20 Blind plug, SSB	1	NO			DNH
2.5.2	Explosionproof Junction Box, 160x160x90mm, GRP, IP66, consist of terminal blocks, cable glands, 3m cable pigtail and other accessories.	1	NO			



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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Note: We have proposed 8W wall mount speaker against the 6W requirement. Customer to advice if this is acceptable.					
2.6	Loudspeaker 25W (Explosion proof)	355	SET	670.00	237,850.00	
2.6.1	P/N: DSP-15 EExmNT IIB, 100V, 25W, 2xM20 Blind plug, SSB	1	NO			DNH
2.6.2	Explosionproof Junction Box, 160x160x90mm, GRP, IP66, consist of terminal blocks, cable glands, 3m cable pigtail and other accessories.	1	NO			
2.7	Ceiling Speaker 1W (1.5W)	100	SET	305.00	30,500.00	
2.7.1	P/N: BPF-660 T 70/100V, 8W	1	NO			DNH
2.7.2	Weatherproof Junction Box, 160x160x90mm, GRP, IP66, consist of terminal blocks, cable glands, 3m cable pigtail and other accessories.	1	NO			
	Note: We have proposed 8W wall mount speaker with 1.5W tapping against the 1W requirement. Customer to advice if this is acceptable.					
2.8	PAGA ACU (Access Control Unit)	5	SET	7,864.00	39,320.00	Industronic



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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
2.8.1	P/N: 302-053-600 36 AP 712H Access Panel Desktop intercom station with 7" color touch display, 36 mechanical keys with integrated signaling function, 3 function keys, handset and redundant network interface included for the connection to INTRON-X / INTRON-D plus systems. Display layout: 1 layer with 20 display keys, dial keypad and service layer.	1	NO			
2.8.2	309-042-500 PSI 001/48/0,5 Power adapter with interchangeable power plug for GB	1	NO			
2.9	Beacon	49	SET	212.00	10,388.00	
2.9.1	PAGA Beacon	1	NO			E2S
2.10	Mounting Mast (Pole)	182	SET	177.00	32,214.00	
2.10.1	3m Pole Mast	1	NO			

BOM requires Explosion-proof ATEX Zone 1, IIA T3 (Red & Yellow). Offered model unspecified for Ex certification. Please confirm ATEX/IECEX Zone 1 certification and T-class, or replace with compliant Ex d beacon (dual color as required).

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A2 PAGA System

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A2 PAGA System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed PAGA System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
3.1	PMR/MARINE VHF Cabinet	2	SET	13,673.00	27,346.00	
	Cabinet					
3.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	48C FOPP					
3.1.2	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	1	NO			Fibertek
3.1.3	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	48	NO			Fibertek
3.1.4	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	24	NO			Fibertek
	Access Switch (48 port)					
3.1.5	P/N: DGS-1530-52P 52-port Gigabit Layer 3 Lite Stackable Smart Managed PoE (370W) Switch with 4-port 10G Uplinks, 48 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 10G SFP+	1	NO			D-link
3.1.6	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	2	NO			D-link



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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	UTP Patch Panel					
3.1.7	P/N: FSTP-148BL-BK FiberTek Ethernet Patch Panel:Blank 48 Port Shielded,1U, 19 inch Patch Panel, Black	1	NO			Fibertek
3.1.8	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	48	NO			Fibertek
3.1.9	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	48	NO			Fibertek
3.1.10	P/N: Sailor 6081 SAILOR 6081 Power Supply incl. Charger and Tray for wall mounting 300W/28V DC	1	SET			Cobham Satcom
3.1.11	P/N: Sailor 6080 SAILOR 6080 AC/DC Power Supply 300W/28VDC	1	SET			Cobham Satcom
	Base Station Transceiver					
3.1.12	P/N: Sailor 6210 Sailor 6210 VHF including: - Transceiver Unit - Sailor 6202 Hand Microphone - Mounting Bracket - SAILOR 6204 Control Speaker Microphone - Ex Radio Speaker	1	SET			Cobham Satcom
3.2	PMR(Private Marine Radio) desktop console	2	SET	2,966.00	5,932.00	



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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
3.2.1	P/N: Sailor 6210 Sailor 6210 VHF including: - Transceiver Unit - Sailor 6202 Hand Microphone - Mounting Bracket - SAILOR 6204 Control Speaker Microphone - Ex Radio Speaker	1	NO			Cobham Satcom
3.3	Fixed PMR Radio	5	SET	2,966.00	14,830.00	
3.3.1	P/N: Sailor 6210 Sailor 6210 VHF including: - Transceiver Unit - Sailor 6202 Hand Microphone - Mounting Bracket - SAILOR 6204 Control Speaker Microphone - Ex Radio Speaker	1	NO			Cobham Satcom
3.4	VHF Marine RCU(Remote Control Unit)	3	SET	1,924.00	5,772.00	
3.4.1	P/N: Sailor 6301 SAILOR 6301 Control Unit DSC Class A - Included SAILOR 6208 Control Unit Connection Box	1	NO			Cobham Satcom
3.5	Omni-directional Antenna	5	SET	856.00	4,280.00	



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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
3.5.1	P/N: AV51BI4 AV51BI4, VHF Marine Antenna: - Frequency: 156-162 MHz - Gain: 3dB - Max power: 100 W - Mounting bracket	1	NO			Comrod
3.6	Ceiling Omni-antenna	14	SET	314.00	4,396.00	
3.6.1	VHF Indoor Ceiling Mount Omni Antenna 134-960MHz 2dBi	1	NO			
3.7	Telecom Tower (Radio antenna)	1	LOT	109,200.00	109,200.00	
3.7.1	Supply of 50m Tower including, Galvanized Tower Steel, Anchor Bolts and Template Supply, Paint Supply and Installation, Aviation Warning Light, Lightening Protection, Antenna Mounts, Climbing Ladder and Safety Rail. Tower Facewidth is 3.1m (Leg To Leg)	1	NO			BOM indicates 40 m with twin aviation lights. Vendor proposes 50 m tower, 3.1 m face width. Please align to 40 m or justify the need for 50 m (expected coverage study/wind load?)
3.8	Hand Portable Radio (IS)	53	SET	2,453.00	130,009.00	
3.8.1	P/N: Sailor SP3540 SAILOR SP3540, Ex VHF Portable Radio (Intrinsically safe: II 2G Ex ib IIC T4), including: - Transceiver - Belt Clip - Lanyard - Lithium Battery (primary battery) - Li-Ion Rechargeable Battery - Single Charger	1	NO			Cobham Satcom



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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
3.9	Multiway Charger for Radio	5	SET	632.00	3,160.00	
3.9.1	Dual Charger	1	NO			Cobham Satcom
3.1	Single Charger for Radio	5	SET	466.00	2,330.00	
3.10.1	Single Battery Charger	1	NO			Cobham Satcom
3.11	Headset Radio	6	SET	3,032.00	18,192.00	
3.11.1	P/N: PELTOR MT7H9F-50 'Headset with PTT unit ATEX	1	NO			
3.12	Headset Radio (IS)	27	SET	3,032.00	81,864.00	
3.12.1	P/N: PELTOR MT7H9F-50 'Headset with PTT unit ATEX	1	NO			
3.13	Vehicle Radio (IS)	6	SET	7,677.00	46,062.00	
3.13.1	P/N: Sailor 7222 Sailor 7222 VHF DSC Class A, include: - Sailor 7224 VHF Control Unit - Sailor 6201 Handset w/cradle - Sailor 7226 Transceiver Unit Inc. power cable - SAILOR 6208 Connection Box	1	NO			Cobham Satcom

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A3 Radio System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed Radio System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



A4 Mobile 4G LTE System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
4.1	4G LTE Cabinet	1	SET	3,560.00	3,560.00	
4.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	Note: Customer to provide the required equipment to be installed in the proposed cabinet.					
4.2	Mobile (ATEX)	27	SET	3,864.00	104,328.00	Pepperl+Fuchs
4.2.1	P/N: Smart-Ex03-DZ1 5G smartphone Smart-Ex® 03 DZ1_Zone 1, without camera, Processor: Qualcomm® Snapdragon QCM6490 and SDR753 platform, RAM 8 GByte, Internal data memory: 128 G_Byte, Touchscreen technology, can be operated while wearing gloves, Extreme shock and scratch resistant Gorilla® glass, Operating system Android™ 13, Android™ Enterprise Recommended verified device, International approvals IECEx approval IECEx marking Ex IA IIC, T4 Gb Ex IA IIIC T135 °C Db Ta = -20 °C to +60, °C International approvals, IECEx approval, IECEx marking Ex IA IIC T4 Gb, Ex IA IIIC T135 °C Db	1	NO			
	Note: SIM card to be provided by the Customer					
4.3	Smart Tablet (ATEX)	29	SET	8,391.00	243,339.00	

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A4 Mobile 4G LTE System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed Mobile 4G LTE System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.1	CCTV Cabinet	1	LOT	111,306.00	111,306.00	
5.1.1	P/N: Cabinet 42U, 800(W) x 1000(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	3	NO			Tekpan
	NVR					
5.1.2	P/N: DHI-IVSS7116DR 3U 16HDDs WizMind Intelligent Video Surveillance Server	3	NO			Dahua
5.1.3	P/N: ST16000NM000J Enterprise HDD 16TB	28	NO			Dahua
	VMS					
5.1.4	Dell Server	1	NO			Dahua
5.1.5	P/N: DSS8PRVB DHI-DSSPro8-Video-Base-License	1	NO			Dahua
5.1.6	P/N: DSS8PRV DHI-DSSPro8-Video-Channel-License	278	NO			Dahua
5.1.7	P/N: DSSHOTSTANDBY DHI-DSS-Hot Standby-License	1	NO			Dahua
	Access Switch (48 port)					
5.1.8	P/N: DGS-1530-52P 52-port Gigabit Layer 3 Lite Stackable Smart Managed PoE (370W) Switch with 4-port 10G Uplinks, 48 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 10G SFP+	3	NO			D-link



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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.1.9	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	6	NO			D-link
	UTP Patch Panel					
5.1.10	P/N: FSTP-148BL-BK FiberTek Ethernet Patch Panel:Blank 48 Port Shielded,1U, 19 inch Patch Panel, Black	3	NO			Fibertek
5.1.11	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	144	NO			Fibertek
5.1.12	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	144	NO			Fibertek
	48C FOPP - for Uplink					
5.1.13	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	1	NO			Fibertek
5.1.14	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	48	NO			Fibertek
5.1.15	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	2	NO			Fibertek
	48C FOPP - for Camera Connection					
5.1.16	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	23	NO			Fibertek



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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.1.17	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	1104	NO			Fibertek
5.1.18	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	136	NO			Fibertek
	MEDIA CONVERTERS					
5.1.19	P/N: FN14-RACK-P2A FiberTek Ethernet Converter:14 Slot Media Converter Rack for FCNCS series, 19-Inch (2U High), with 2 AC powers (100 ~ 265VAC)	10	NO			Fibertek
5.1.20	P/N: FCNCS-1GN-1GS FiberTek Ethernet Converter:Standalone Gigabit Ethernet 1 x 10/100/1000Base-TX To 1 x 100/1000Base-FX (SFP Slot) Converter, 5VDC come with AC Adapter	136	NO			Fibertek
5.1.21	P/N: SFP-S1213L-20I 1.25Gbps SFP:Industrial Grade, Singlemode, 1310nm, LC, 20km, DDM, Cisco Compatible	136	NO			Fibertek
	KVM Switch					
5.1.22	KVM Switch	1	NO			
5.2	Dome camera (security) - Indoor	22	SET	221.00	4,862.00	Dahua
5.2.1	P/N: DH-IPC-HDBW5241E-ZE 2MP IR Vari-focal Vandal-proof Dome WizMind Network Camera	1	NO			
5.2.2	P/N: DH-PFA101 Mount Adapter	1	NO			

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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.3	Dome camera (security) - Weatherproof Outdoor	81	SET	1,399.00	113,319.00	Dahua
5.3.1	P/N: DH-IPC-HDBW5241E-ZE 2MP IR Vari-focal Vandal-proof Dome WizMind Network Camera	1	NO			
5.3.2	P/N: DH-PFA101 Mount Adapter	1	NO			
5.3.3	Weatherproof Junction Box, SS316L, IP66 c/w PSU, media converter, FOPP, power termination board, internal wiring, tags and cable glands.	1	NO			
5.4	Security camera - Explosionproof Outdoor	17	SET	7,498.00	127,466.00	
5.4.1	P/N: DH-ECA7B1231-HNP-XA-F 2MP 31 Starlight IR EXPLOSION-PROOF CAMERA	1	NO			Dahua
5.4.2	P/N: SDPJ008-7B1-316 Wall Mount Bracket	1	NO			Dahua
5.4.3	Flexible Tube 1.5m	1	NO			Dahua
5.4.4	P/N: JXD4 Junction Box	1	NO			Dahua
5.4.5	Gland(Connector) between junction box and flexible tube	3	NO			Dahua
5.4.6	Explosion-proof Washing System	1	NO			
5.4.7	Exproof Ex'd Junction Box, Aluminum, IP66 c/w PSU, media converter, FOPP, power termination board, internal wiring, tags, sunshade and cable glands.	1	NO			
5.5	PTZ CCTV camera - Explosionproof Outdoor	35	SET	12,261.00	429,135.00	



A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.5.1	P/N: DH-EPC230U-PTZ-IR 2MP 30x Explosion-proof IR Network Positioning System	1	NO			Dahua
5.5.2	P/N: DH-ZAZ660B Wall Mount Bracket	1	NO			Dahua
5.5.3	Flexible Tube 1.5m	1	NO			Dahua
5.5.4	P/N: JXD4 Junction Box	1	NO			Dahua
5.5.5	Gland(Connector) between junction box and flexible tube	3	NO			Dahua
5.5.6	Explosion-proof Washing System	1	NO			
5.5.7	Exproof Ex'd Junction Box, Aluminum, IP66 c/w PSU, media converter, FOPP, power termination board, internal wiring, tags, sunshade and cable glands.	1	NO			
5.6	Thermal CCTV camera - Fixed Explosionproof Outdoor	3	SET	26,557.00	79,671.00	
5.6.1	P/N: DHI-TPC-AEPT8441-T Thermal Anti-Explosion Hybrid PTZ Camera	1	NO			Dahua
5.6.2	P/N: DH-ZAZ660B Wall Mount Bracket	1	NO			Dahua
5.6.3	Flexible Tube 1.5m	1	NO			Dahua
5.6.4	P/N: JXD4 Junction Box	1	NO			Dahua
5.6.5	Gland(Connector) between junction box and flexible tube	3	NO			Dahua
5.6.6	Explosion-proof Washing System	1	NO			

Thermal CCTV camera: BOM calls 'Fixed type' explosion-proof thermal cameras. Offered model DHI-TPC-AEPT8441-T is hybrid PTZ. Please offer fixed Ex camera to meet spec.



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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.6.7	Exproof Ex'd Junction Box, Aluminum, IP66 c/w PSU, media converter, FOPP, power termination board, internal wiring, tags, sunshade and cable glands.	1	NO			
5.7a	Tilt-Over Lattice Tower (CCTV camera) - 6m	37	SET	686.00	25,382.00	
5.7a.1	6m Hot-Dip Galvanized Tapered Octagonal Mid-Hinged Column Flange Mounted Type c/w: 1x Bracket for CCTV Camera, 1x Bracket for Junction Box and 4x J Bolts and Nuts	1	NO			
5.7b	Manual Hand Winch	3	SET	1,837.00	5,511.00	
5.7b.1	Manual Hand Winch	1	NO			
5.8	FOJB (Fiber optic Junction box)	9	SET			
5.8.1	Weatherproof Junction Box w/ mounting bracket, SS316L, IP66 DIN rail FOPP to terminate 48C FO cable	1	NO			
	Note: Customer to clarify the number of cameras to be terminated in this Fiber Optic Junction Box.					
5.9	PTZ Controller Keyboard	2	SET	1,092.00	2,184.00	Dahua
5.9.1	P/N: DHI-NKB5000 NETWORK KEYBOARD	1	NO			

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A5 CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed CCTV System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.1	SCS(Structural Cabling System) Cabinet	3	SET	3,469.00	10,407.00	
6.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7032, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with ATS. Zone 4 Seismic Kit included.	1	NO			Tekpan
6.2	Telephony Cabinet	1	SET	21,972.00	21,972.00	
	Cabinet					
6.2.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7032, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with ATS. Zone 4 Seismic Kit included.	1	NO			Tekpan
	PABX					



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.2.2	P/N: KNTD-500 -Support 500 ports SIP users -Hot redundancy backup Optional separately -Include hardware and software -With call queue, call transfer, monitoring, forced dismantling, forced insertion, user rights management, log management, with group call, group call function -Simultaneous Calls: 20% of register user -Support G.711, 7.29. 7.23, 7.26 encoding -Support recording function Optional -Interface with NMS/NTP/ NORTH ALARM -Commend/broadcast/conference	1	NO			
	Analog Gateway					
6.2.3	P/N: KNMMG32-32S -Support FXS Port: 32 Extension Number -Support SIP 2.0 (RFC3261) and SIP related rfc -Voice code: G.711A/u, G.7231 high/low, G.729 -Echo cancellation: support G.168 standard, -reach to cancellation for 128ms long-line .transmission: Support telephone line for 10KM -Support VAD, CNG -SIP supports SIP domain, SIP certificate(none, basic, MD5), DNS, point to point (DIALPEER setting and IP inputting) calling -SIP support registered 32 account in the same time; -Support could make calling via any account; -Support DTFM mode: SIP info, RFC2833 -Support Fax :T.38, VBD, BYPASS -Support SIP application, including before the call	1	NO			
	MDF					
6.2.4	100 pairTelephone Patch Panel	1	NO			
	UTP PP					

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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.2.5	P/N: FUTP-124BL-BK FiberTek Ethernet Patch Panel:Blank 24 Port Unshielded, 1U, 19 inch Patch Panel, Black	1	NO			Fibertek
6.2.6	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	24	NO			Fibertek
6.2.7	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	24	NO			Fibertek
	Access Switch					
6.2.8	P/N: DGS-3130-30S 24 SFP ports + 2 10GBase-T ports + 4 10G SFP+ ports, L3 Stackable Managed Switch	1	NO			D-link
6.2.9	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	1	NO			D-link
	Note: Proposed PABX and Analog Gateway as per Telephone Block diagram					
6.3	VSAT(Very Small Aperture Terminal) Cabinet	1	SET	3,469.00	3,469.00	
6.3.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7032, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with ATS. Zone 4 Seismic Kit included.	1	NO			Tekpan



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.4	IP Phone	130	SET	117.00	15,210.00	
6.4.1	P/N: KNPL-520 Support SIP2.0 (RFC3261) and correlative RFCs SIP support 2 SIP servers, and backup SIP proxy servers Display Resolution: 128x48 with Backlight IP rating:IP33 Power consumption:Idle 0.89W~1.2W Peak 1.81W~2.5W	1	NO			Koontech
6.4.2	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	1	NO			Fibertek
	Note: IP Phones will be connected to the nearest data outlet and access switch					
6.5	Reception phone	2	SET	6,631.00	13,262.00	
6.5.1	P/N: KNDDT-A11 11 inch LCD Touch screen With gooseneck microphone Max resolution 1920*1080 ratio 16:9 Desktop, wall-mounted Aluminum alloy frame I5 quad-core processor Standard IP phone 1pcs VoIP SIP Info, RFC 2833 (DTMF) With 2* 3.5mm headphone jacks	1	NO			
	Note: Proposed corded handset console phone					
6.6a	Hotline Telephone	6	SET	234.00	1,404.00	



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.6a.1	P/N: KNZD-14 VoIP -VoIP SIP2.0 POE/DC12V powered -Remote online management -Powder coated against rusting -Cold-roll steel body durable -Dust and water resistant IP-55 -Vandal resistant rating IK10 -Hotline pick up to talk -Handset with noise canceling audio -Handset industrial armored cord -Power consumption:15W	1	NO			Koontech
6.6a.2	P/N: C6AP-UTP-GR-2m CAT-6A UTP Patch Cord, Grey, 2m	1	NO			Naficon
	Note: Added 1 Unit of Hotline Phone to a total of 4 Units to accommodate point to point Hotline configuration.					
6.6b	Ringdown Extender with Media Converter (For Hotline)	6	SET	882.00	5,292.00	
6.6b.1	P/N: FCNID-1GN-1GS FiberTek Industrial Ethernet Converter:Din-rail Mount Gigabit Ethernet 1 x 10/100/1000Base-TX To 1 x 1000Base-FX (SFP Slot) Converter, 12VDC to 58VDC	1	NO			
6.6b.2	P/N: SFP-S1213L-20I 1.25Gbps SFP:Industrial Grade, Singlemode, 1310nm, LC, 20km, DDM, Cisco Compatible	1	NO			
6.6b.3	SS316L Enclosure including FOPP and other accessories.	1	NO			
6.7	VSAT(Very Small Aperture Terminal) Telephone	1	LOT	91,763.00	91,763.00	
	Satellite Modem and Antenna					



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.7.1	iDirect X5 Satellite Modem	1	NO			
6.7.2	Prodeline 2.4m Antenna, 16W Ku-Band BUC, Ku Quad Band LNB, RF Cables with connectors, 3 core power cable, Junction Box	1	NO			
6.7.3	Dell Latitude E6440 laptop (pre-loaded with necessary M&C Software)	1	NO			
6.7.4	LMR400 coaxial cable - 50m	1	NO			
	Mobile satellite phone					
6.7.5	Iridium Satellite Series 9575 Portable Phone Kit Complete Of :- - Iridium 9575 satellite phone - AC Travel Charger - International plug kit - Auto Accessories Adapter - Handsfree headset - Rechargeable Li-ion Battery - Adaptor, 9575, Antenna, Power USB - Adaptor, 9575, Power USB - Leather Holster - Headset - Mini-USB data port - Quick Start Guide	3	NO			
	Controller					
6.7.6	Dell Latitude E6440 laptop (pre-loaded with necessary M&C Software) Note: To be connected to the proposed Modem	1	NO			
	Block upconverter UP					
6.7.7	Universal Ku-band 13.75–14.5 GHz, IF 950–1700 MHz (matches X5 IF), compact 16W output — common choice for iDirect remotes.	1	NO			



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Low noise block 'DOWN' PLL LNB					
6.7.8	PLL stability (± 25 kHz / ± 25 ppm options), low NF (~ 0.8 dB) — suitable for iDirect demodulation and narrow	1	NO			
	Cable Set					
6.7.9	Coaxial cable 50 Ohm 5D-FB	120	M			
6.7.10	Cable P5/P12 BFOU (TCL2) 2x2.5	50	M			
6.8	Telephone station with Acoustic hood	34	SET	4,440.00	150,960.00	
	Explosion Proof Outdoor Analog Phone (ATEX)					
6.8.1	P/N: KNEx6 -ATEX TUV certified -With beacon D20 -Dust/water resistant-rating IP-66 -AC127V/240V powered -Full keypad with memory speed-dial -Lightening protection to ITU-T K.21 -Magnetic reed hook-switch -Handset with armoured cable -II 2G Ex db ib IIB T5 Gb -20°C to 55°C	1	NO			Koontech
	Acoustic Hood					
6.8.2	P/N: RF-13 -Up to 23-28dB noise reduction -TUV certified quality -Body in GRP(Glass reinforced plastic) -Build with fire resistance material -With cold-rolled steel mounting bracket for hoods -High visibility yellow paint finish -Designed for harsh environments -Price not include telephone and mounting panel inside	1	NO			Koontech



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A6 Telephone & SCS System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
6.8.3	Exd Aluminum Telephone Junction Box, IP66, with Pigtails, Terminal Blocks and Cable Glands	1	NO			
	Total For Telephone & SCS System In USD FOB Singapore				150,960.00	
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed Telephone & SCS System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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Note: Customer to clarify the number of field devices to be terminated in this Fiber Optic Junction Box.



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A7 Fiber Optic Network System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For Fiber Optic Network System In USD FOB Singapore				27,328.00	
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Fiber Optic Network System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A8 GPS

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
8.1	Primary GPS Cabinet	1	SET	7,261.00	7,261.00	
8.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7032, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with ATS.	1	NO			Tekpan
	GPS Antenna					
8.1.2	P/N: M-GPS-MTG-KIT-1 GPS Mounting Kit	1	NO			
8.1.3	P/N: E-ANT-CBL150F-1 150 foot (45.7 meters) Special GPS Cable	1	NO			
	Time server					
8.1.4	P/N: NTP-8R0-0100-1 NTP 8000 Series Master Clock, GPS, Server Upgrade & Web Interface, Rack Mount	1	NO			
	Digital Clock					
8.1.5	"P/N: SBP-31F-406-0R Sapling Digital, IP, 3100 Model, 4.0", 6 Digits, PoE, Red Display, Flush/Recessed Mounted Steel Case	1	NO			
8.2	GPS Antenna	2	SET	Included	Included	
	Note: Included under the Primary and Secondary GPS Cabinet.					

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A8 GPS

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For GPS In USD FOB Singapore				7,261.00	
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed GPS is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A9 Meteorological System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
9.1	Meteorological System Cabinet	1	SET	10,432.00	10,432.00	
9.1.1	P/N: Cabinet 42U, 800(W) x 1000(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	Server					
9.1.2	Vaisala Elements Software AWS430 Based System for weather observation and monitoring	1	NO			Vaisala
	Access Switch (24 port)					
9.1.3	P/N: DGS-1520-28MP 28-port Gigabit Layer 3 Stackable Smart Managed PoE (370W) Switch with 4-port 2.5G & 4-port 10G Uplinks 20 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 2.5G PoE, 2 x 10GBase-T, 2 x SFP+ (Ports 1-24: Up to 30W), MAC Address 16K, Layer 3	1	NO			Dlink
9.1.4	P/N: DEM-310GT 1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	2	NO			Dlink
9.2	Meteo System Workstation	4	SET	2,821.00	11,284.00	
10.2.1	PC Workstation with keyboard and mouse	1	NO			Dell or equivalent
10.2.2	27" LED Monitor	1	NO			
10.2.3	3m HDMI Cable	1	NO			

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A9 Meteorological System

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A9 Meteorological System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>Emailed RFQ from Vendor</p> <p>2. Note that our proposed Meteorological System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.1	ACS & ePOB Cabinet	1	SET	27,829.00	27,829.00	
10.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	ACS Server					
10.1.2	ACS Server	1	NO			
	ACS Management Software					
10.1.3	P/N: DSS8PRDB DHI-DSSPro8-Door-Base-License ACS management software includes 16 door channels	1	NO			Dahua
10.1.4	P/N: DSS8PRD DHI-DSSPro8-Door-Channel-License	169	NO			Dahua
	ACS Controller					
10.1.5	P/N: DHI-ASC2208C-S 8 door 1 way access controller (with enclosure) ACS Controller (for 8door) (Optional) - connection for 8 card readers, 8 Em lock, 8 breakglass and 8 emergency release button.	4	NO			Dahua
	24-Port FOPP					
10.1.6	P/N: FPP124-24-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 24 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	1	NO			Fibertek



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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.1.7	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	24	NO			Fibertek
10.1.8	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	24	NO			Fibertek
	Access Switch (24-Port)					
10.1.9	P/N: DGS-1520-28MP 28-port Gigabit Layer 3 Stackable Smart Managed PoE (370W) Switch with 4-port 2.5G & 4-port 10G Uplinks 20 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 2.5G PoE, 2 x 10GBase-T, 2 x SFP+	1	NO			D-link
10.1.10	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	2	NO			D-link
	24-Port UTP Patch Panel					
10.1.11	P/N: FUTP-124BL-BK FiberTek Ethernet Patch Panel:Blank 24 Port Unshielded, 1U, 19 inch Patch Panel, Black	1	NO			Fibertek
10.1.12	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	24	NO			Fibertek
10.1.13	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	12	NO			Fibertek
10.2	ACS Cabinet	6	SET	7,575.00	45,450.00	

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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.2.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	ACS Controller					
10.2.2	P/N: DHI-ASC2208C-S 8 door 1 way access controller (with enclosure) ACS Controller (for 8door) (Optional) - connection for 8 card readers, 8 Em lock, 8 breakglass and 8 emergency release button.	2	NO			Dahua
	24-Port FOPP					
10.2.3	P/N: FPP124-24-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 24 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	1	NO			Fibertek
10.2.4	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	24	NO			Fibertek
10.2.5	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	24	NO			Fibertek
	Access Switch (24-Port)					
10.2.6	P/N: DGS-1520-28MP 28-port Gigabit Layer 3 Stackable Smart Managed PoE (370W) Switch with 4-port 2.5G & 4-port 10G Uplinks 20 x 10/100/1000Base-T 802.3af/802.3at PoE, 4 x 2.5G PoE, 2 x 10GBase-T, 2 x SFP+	1	NO			D-link



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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.2.7	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	2	NO			D-link
	24-Port UTP Patch Panel					
10.2.8	P/N: FUTP-124BL-BK FiberTek Ethernet Patch Panel:Blank 24 Port Unshielded, 1U, 19 inch Patch Panel, Black	1	NO			Fibertek
10.2.9	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	24	NO			Fibertek
10.2.10	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	12	NO			Fibertek
10.3	Card reader	73	SET	378.00	27,594.00	Dahua
10.3.1	P/N: DHI-ASF280A Single Door Magnetic Lock Electromagnetic lock with door sensors (Single door) - Including Z/L bracket	1	NO			
10.3.2	P/N: ASF280ZL Lock Z/L bracket	1	NO			
10.4	Card reader (Weatherproof Outdoor)	33	SET	378.00	12,474.00	Dahua
10.4.1	P/N: DHI-ASF280A Single Door Magnetic Lock Electromagnetic lock with door sensors (Single door) - Including Z/L bracket	1	NO			

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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.4.2	P/N: ASF280ZL Lock Z/L bracket	1	NO			
10.5	Card reader (Explosion-Proof)	12	SET	3,733.00	44,796.00	
10.5.1	P/N: ExP-IDCR-SIGNO-40-EX ExP-IDCR-SIGNO-40-EX Signo 40 CARD READER	1	NO			
10.6	Card reader with Keypad (Indoor)	35	SET	378.00	13,230.00	Dahua
10.6.1	P/N: DHI-ASF280A Single Door Magnetic Lock Electromagnetic lock with door sensors (Single door) - Including Z/L bracket	1	NO			
10.6.2	P/N: ASF280ZL Lock Z/L bracket	1	NO			
10.7	Card reader with Keyboard	1	SET	378.00	378.00	Dahua
10.7.1	P/N: DHI-ASF280A Single Door Magnetic Lock Electromagnetic lock with door sensors (Single door) - Including Z/L bracket	1	NO			
10.7.2	P/N: ASF280ZL Lock Z/L bracket	1	NO			
10.8	Door status contact	165	SET	17.00	2,805.00	

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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.8.1	Door status contact	1	NO			
10.9	Electromagnetic lock	112	SET	54.00	6,048.00	
10.9.1	P/N: SDS-600 600lbs EM lock c/w LED 12vdc / 24vdc	1	NO			SDS
10.10	Break glass unit	97	SET	30.00	2,910.00	
10.10.1	P/N: SDS-168DPG Breakglass DPDT	1	NO			SDS
10.10.2	Back box	1	NO			
10.11	ACS Intercom	5	SET	2,343.00	11,715.00	Aiphone
10.11.1	P/N: [54025311] IX-DVF.M Video door station, flush mount (T)	1	NO			
10.12	ACS & ePOB Workstation	4	SET	6,877.00	27,508.00	
10.2.1	PC Workstation with keyboard and mouse	1	NO			Dell or equivalent
10.2.2	27" LED Monitor	1	NO			
	Card Printer					
10.2.3	Badge Printer with Ribbon	1	NO			
10.2.4	Ultra HD Webcam for Photos	1	NO			



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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
10.13	ACS & ePOB 42" display	4	SET	1,497.00	5,988.00	
10.13.1	42" LED Display	1	NO			
10.14	Horizontal Push Bar	14	SET	840.00	11,760.00	
10.14.1	Panic Bar	1	NO			
10.15	IN/OUT POB Reader	2	SET	3,077.00	6,154.00	
10.15.1	P/N: DHI-ASC2208C-S 8 door 1 way access controller (with enclosure) ACS Controller (for 8door) (Optional) - connection for 8 card readers, 8 Em lock, 8 breakglass and 8 emergency release button. - PSU (if required) - Junction box/enclosure will be under our scope.	1	NO			Dahua
10.15.2	Exproof Ex'd Junction Box, Aluminum, IP66 c/w PSU, media converter, FOPP, power termination board, internal wiring, tags, sunshade and cable glands.	1	NO			
10.16	OCU(Override Control Unit)	2	SET	2,520.00	5,040.00	
10.16.1	Exproof Override Keyswitch	1	NO			

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A10 ACS(Access Control System) & ePOB

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For ACS(Access Control System) & ePOB In USD FOB Singapore				251,679.00	
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <ol style="list-style-type: none"> 1. The quantity quoted for the above system was based on RFQ docs under: CNI_BOQ_P-AGSA_Rev.B 2. Note that our proposed ACS(Access Control System) & ePOB is for a preliminary proposal and subject to change at a later stage. 3. Cable and cable raceway are not provided unless stated. 4. Any items not quoted in the quotation will be provided by others. 5. All incoming power to the equipment will be provided by others. 6. Site commissioning and supervision are quoted as a diem rate. 					



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A11 Entertainment System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
11.1	Entertainment Cabinet	2	SET	38,286.00	76,572.00	
11.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
	Video Conference System					
11.1.2	P/N: CS-KITPRO-K9 Cisco Room Kit Pro - Codec, Quad Cam, Navigator	1	NO			Cisco
11.1.3	P/N: CON-SNT-CS0CK9KI Room Kit Pro - Codec, Quad Cam, Room Navigator - GPL SNTC-8X	1	NO			Cisco
11.1.4	P/N: CS-MIC-TABLE-E Cisco Table Microphone with Euroblock plug	6	NO			Cisco
11.1.5	P/N: CON-SNT-CS4GEEMI Cisco Table Microphone with Euroblock plug SNTC-8X5XNBD	6	NO			Cisco
11.1.6	P/N: CS-CAM-PTZ4K Pan-Tilt-Zoom 4K 20x Camera	1	NO			Cisco
11.1.7	P/N: CON-SNT-CS1F4KCA Pan-Tilt-Zoom 4K 20x camera SNTC-8X5XNBD	1	NO			Cisco
11.1.8	P/N: CS-PTZ4K-BRKT Bracket for wall mounting of PTZ 4K camera	1	NO			Cisco
11.1.9	P/N: CAB-PRES-2HDMI-GR HDMI 1.4b Presentation cable (W/ REPEATER) 8M length	1	NO			Cisco



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A11 Entertainment System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Entertainment System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A12 Security System - Security CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
12.1	Security CCTV camera	103	SET	3,248.00	334,544.00	
12.1.1	P/N: DH-IPC-HF5241F-ZE 2MP IR Vari-focal Bullet Wizmind Box Network Camera	1	NO			Dahua
12.1.2	P/N: DH-PFL1040-A12PE Lens 10-40 mm	1	NO			Dahua
12.1.3	P/N: DH-PFH610N-IR-W Housing	1	NO			Dahua
12.1.4	P/N: DH-PFB604W Wall mount	1	NO			Dahua
12.1.5	P/N: DH-PFC701W Water Tank	1	NO			Dahua
12.1.6	SS316L Junction Box, IP66, with Cables, Terminal Blocks and Accessories	1	NO			
12.2	Security PTZ CCTV camera	33	SET	3,585.00	118,305.00	
12.2.1	P/N: DH-SD6AL445GB-HNV-IR 4MP 45x Starlight IR PTZ Network Camera	1	NO			Dahua
12.2.2	P/N: DH-PFA150 Pole Mount	1	NO			Dahua
12.2.3	P/N: DH-PFC701W Water Tank	1	NO			Dahua
12.2.4	SS316L Junction Box, IP66, with Cables, Terminal Blocks and Accessories	1	NO			



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A12 Security System - Security CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
12.3	Tilt-Over Lattice Tower (CCTV camera) - 6m	111	SET	686.00	76,146.00	
12.3.1	6m Hot-Dip Galvanized Tapered Octagonal Mid-Hinged Column Flange Mounted Type c/w: 1x Bracket for CCTV Camera, 1x Bracket for Junction Box and 4x J Bolts and Nuts	1	NO			
12.4	Tilt-Over Lattice Tower (CCTV camera) - 10m	20	SET	2,520.00	50,400.00	
12.4.1	10m Hot-Dip Galvanized Tapered Octagonal Mid-Hinged Column Flange Mounted Type c/w: 1x Bracket for CCTV Camera, 1x Bracket for Junction Box and 4x J Bolts and Nuts	1	NO			
12.5a	FEC (Field Equipment Cabinet)	10	SET	3,100.00	31,000.00	Tekpan
12.5a.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7032, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with ATS. Zone 4 Seismic Kit included.	1	NO			
	Distribution Switch (24 Port)					
12.5a.2	P/N: DGS-3130-30S 24 SFP ports + 2 10GBase-T ports + 4 10G SFP+ ports, L3 Stackable Managed Switch	1	NO			D-link
12.5a.3	1-port 1000Base-LX (LC) Single-mode Fiber SFP (Mini-GBIC) Transceiver (Up to 10km, Support 3.3V Power)	1	NO			D-link



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A12 Security System - Security CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Note: NVR and Video Management of the Security Cameras will be catered by CCTV System under item no. 5.1					
12.5b	FO & UTP Patch Panel and Media Converter	1	LOT	22,173.00	22,173.00	
	UTP Patch Panel					
12.5b.1	P/N: FSTP-148BL-BK FiberTek Ethernet Patch Panel:Blank 48 Port Shielded,1U, 19 inch Patch Panel, Black	4	NO			Fibertek
12.5b.2	P/N: FUTP6A-180-RJ45-BK-LW FiberTek Ethernet Keystone Jack :UTP Cat6A Keystone Jack, 180Deg, Tool-less, Black	192	NO			Fibertek
12.5b.3	P/N: FUTP6AMBGY-002Z FiberTek Ethernet Patch Cord:Cat.6A UTP Patch Cord with RJ45 Connectors, 24AWG, 2 Meter Grey LSZH Jacket	192	NO			Fibertek
	48C FOPP - for Uplink					
12.5b.4	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	1	NO			Fibertek
12.5b.5	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	48	NO			Fibertek
12.5b.6	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	2	NO			Fibertek
	48C FOPP - for Camera Connection					



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A12 Security System - Security CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
12.5b.7	P/N: FPP124-48-LC-SM-DX(BK) FiberTek 19 Inch Rack Mount Fiber Patch Panel 1U, Powder Coated, 48 fiber ports with LC Duplex Singlemode Adaptor (Blue Colour), Loaded with Spool, Cable Gland, Splice Tray and Sleeves, Black Colour	25	NO			Fibertek
12.5b.8	P/N: LC09SM09PT001 FiberTek Pigtail:LC, Singlemode 9/125um (G.652D), 900um buffer, 1 meter, Yellow Colour	1200	NO			Fibertek
12.5b.9	P/N: LCLCSM09DX002Z FiberTek Patchcord:LC-LC, Singlemode 9/125um (G.652D), Duplex, 2 meter, Yellow Colour LSZH Jacket	147	NO			Fibertek
	MEDIA CONVERTERS					
12.5b.10	P/N: FN14-RACK-P2A FiberTek Ethernet Converter:14 Slot Media Converter Rack for FCNCS series, 19-Inch (2U High), with 2 AC powers (100 ~ 265VAC)	11	NO			Fibertek
12.5b.11	P/N: FCNCS-1GN-1GS FiberTek Ethernet Converter:Standalone Gigabit Ethernet 1 x 10/100/1000Base-TX To 1 x 100/1000Base-FX (SFP Slot) Converter, 5VDC come with AC Adapter	147	NO			Fibertek
12.5b.12	P/N: SFP-S1213L-20I 1.25Gbps SFP:Industrial Grade, Singlemode, 1310nm, LC, 20km, DDM, Cisco Compatible	147	NO			Fibertek
	Note: FO & UTP Patch Panel, and Media Converter are based on the number of cameras. Please clarify the distribution of the equipments.					
	Total For Security System - Security CCTV System In USD FOB Singapore				632,568.00	

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A12 Security System - Security CCTV System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Security System - Security CCTV System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A13 Security System - ACS(Access Control System)

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
13.1	Card Reader	27	SET	378.00	10,206.00	Dahua
13.1.1	P/N: DHI-ASF280A Single Door Magnetic Lock Electromagnetic lock with door sensors (Single door) - Including Z/L bracket	1	NO			
13.1.2	P/N: ASF280ZL Lock Z/L bracket	1	NO			
	Note: We have proposed ACS Controllers as optional. Customer to clarify the purpose of the card readers.					
13.3	ACS Intercom	25	SET	2,343.00	58,575.00	Aiphone
13.2.1	P/N: [54025311] IX-DVF.M Video door station, flush mount (T)	1	NO			
13.3	Turnstile	4	SET	7,728.00	30,912.00	
13.3.1	Full Height Turnstile	1	NO			
13.4	Fixed Dome Camera	8	SET	221.00	1,768.00	Dahua
13.4.1	P/N: DH-IPC-HDBW5241E-ZE 2MP IR Vari-focal Vandal-proof Dome WizMind Network Camera	1	NO			
13.4.2	P/N: DH-PFA101 Mount Adapter	1	NO			



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A13 Security System - ACS(Access Control System)

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
13.5	Vehicle Arm Barrier 4m with ANPR camera with accessories	4	SET	2,488.00	9,952.00	
13.5.1	Vehicle Arm Barrier	1	NO			
13.5.2	P/N: DHI-ITC413-PW4D-IZ1 ANPR Camera	1	NO			Dahua
13.5.3	P/N: DHI-NVR5816-EI2 NVR for ANPR camera	1	NO			Dahua
13.5.4	P/N: ST4000NM000B Enterprise HDD 4TB	1	NO			Dahua
13.6	Sliding gate 20m (Motorized type, push button with accessories)	1	SET	13,464.00	13,464.00	Optima
13.6.1	P/N: Optima SG-7024 Heavy Duty Sliding Gate (7m clear passage width, 8.5m total length, 2.4m height) Sliding gate, horizontal steel beams, epoxy painted black and yellow stripes, manual operation in case of power failure, industrial keyboard, safety photocells with mounting stand, flashing light. Single phase, 220 VAC, 50/60Hz. c/w Dual Channel Vehicle Loop Detector.	1	NO			
13.7	X-Ray scanner and Metal detection archway	1	SET	21,000.00	21,000.00	
13.7.1	X-Ray scanner and Metal detection archway	1	NO			



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A13 Security System - ACS(Access Control System)

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For Security System - ACS(Access Control System) In USD FOB Singapore				145,877.00	
	<u>OPTIONAL</u>					
13.8	ACS Controller	4	SET	286.00	1,144.00	Dahua
13.8.1	P/N: DHI-ASC2208C-S 8 door 1 way access controller (with enclosure) ACS Controller (for 8door) (Optional) - connection for 8 card readers, 8 Em lock, 8 breakglass and 8 emergency release button.	1	NO			



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A13 Security System - ACS(Access Control System)

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Security System - ACS(Access Control System) is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A14 Security System - Intrusion Detection System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<u>Perimeter Intrusion Detection System</u>					
14.1	PIDS Cabinet	1	SET	234,786.00	234,786.00	
14.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
14.1.2	P/N: FP115040U FP1150 Sensor Unit for fence, wall, buried perimeter, and TPI applications. Hardware capable of providing up to 40 km of detection processing on each of its two sensor channels, up to 80 km in total, 100 km total for TPI applications. Includes a baseline 5000 meters of activation license, the activation license defaults to FP-PML-40 (fence and wall applications).	1	NO			Senstar
14.1.3	P/N: FP-PML-40B Per-meter activation license applicable to FP115040U and FP115040H Sensor Units for fence-mounted applications.	4799	NO			Senstar
14.1.4	P/N: FPMA0922-002 FiberPatrol fiber connection module for FP1150 systems. Includes two patch cords with SC/APC connectors, two end modules with fiber pigtails for splicing, associated splice trays, and 1U rack-mount splice enclosure.	1	NO			Senstar
14.1.5	P/N: FPKT0201-001 Field splice enclosure, 4 cable ports, in-line. Includes grommet kit and splicing supplies for 24 splices.	5	NO			Senstar
14.2	Fiber Optic Sensing Cable	1	LOT	58,794.00	58,794.00	

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A14 Security System - Intrusion Detection System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
14.2.1	P/N: FPSP1624-001 Fiberoptic sensor/lead cable for fence, wall and buried applications, 24 fibers, corrugated steel tape armor, single polyethylene jacket.	9799	M			Senstar
14.3	IR Sensor (Weatherproof)	8	SET	118.00	944.00	
14.3.1	IR Sensor (Weatherproof)	1	NO			
14.4	PIDS Workstation	2	SET	2,821.00	5,642.00	
14.4.1	PC Workstation with keyboard and mouse	1	NO			Dell or equivalent
14.4.2	27" LED Monitor	1	NO			
14.4.3	3m HDMI Cable	1	NO			
	<u>Anti Intrusion Detection System (OIL/GAS Pipe Line)</u>					
14.5	Fiber Optic Sensing Cable	1	LOT	495,438.00	495,438.00	
14.5.1	P/N: FP115040U FP1150 Sensor Unit for fence, wall, buried perimeter, and TPI applications. Hardware capable of providing up to 40 km of detection processing on each of its two sensor channels, up to 80 km in total, 100 km total for TPI applications. Includes a baseline 5000 meters of activation license, the activation license defaults to FP-PML-40 (fence and wall applications).	1	NO			Senstar
14.5.2	P/N: FP-PML-40B Per-meter activation license applicable to FP115040U and FP115040H Sensor Units for fence-mounted applications.	20318	NO			Senstar



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BOM specifies 48-core FO sensing cable for pipeline segments. Vendor proposes 24-core and notes deviation. Please change to 48C per BOM.



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A14 Security System - Intrusion Detection System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For Security System - Intrusion Detection System In USD FOB Singapore				795,604.00	
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Security System - Intrusion Detection System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A15 Video Conference System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
15.1	Video Conference System (Microphone)	1	SET	36,542.00	36,542.00	
15.1.1	P/N: CS-KITPRO-K9 Cisco Room Kit Pro - Codec, Quad Cam, Navigator	1	NO			Cisco
15.1.2	P/N: CON-SNT-CS0CK9KI Room Kit Pro - Codec, Quad Cam, Room Navigator - GPL SNTC-8X	1	NO			Cisco
15.1.3	P/N: CS-MIC-TABLE-E Cisco Table Microphone with Euroblock plug	10	NO			Cisco
15.1.4	P/N: CON-SNT-CS4GEEMI Cisco Table Microphone with Euroblock plug SNTC-8X5XNBD	10	NO			Cisco
15.1.5	P/N: CS-CAM-PTZ4K Pan-Tilt-Zoom 4K 20x Camera	1	NO			Cisco
15.1.6	P/N: CON-SNT-CS1F4KCA Pan-Tilt-Zoom 4K 20x camera SNTC-8X5XNBD	1	NO			Cisco
15.1.7	P/N: CS-PTZ4K-BRKT Bracket for wall mounting of PTZ 4K camera	1	NO			Cisco
15.1.8	P/N: CAB-PRES-2HDMI-GR HDMI 1.4b Presentation cable (W/ REPEATER) 8M length	1	NO			Cisco
15.2	Video Projector	2	SET	3,355.00	6,710.00	
11.2.1	RGB Laser Projector	1	NO			
15.3	Video Conference Screen	10	SET	1,821.00	18,210.00	

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A15 Video Conference System

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Video Conference System is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					



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A16 Other Systems

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
16.1	TSAS(Telecom Supervisory Alarm System) Cabinet	1	SET	3,469.00	3,469.00	
16.1.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
16.2	Spare Cabinet 800(W) x 800(D) x 2100(H)	4	SET	3,469.00	13,876.00	
16.2.1	P/N: Cabinet 42U, 800(W) x 800(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan
16.3	Spare Cabinet 800(W) x 1000(D) x 2100(H) for Server	1	SET	3,560.00	3,560.00	
16.3.1	P/N: Cabinet 42U, 800(W) x 1000(D) x 2100(H)mm Floor mounting c/w glazed front & solid rear doors, min IP54, RAL7035, with side panel and 100mm Plinth. Includes power distribution, necessary circuit breakers, surge protection, terminal blocks, earth terminals, end brackets, interconnection wiring and tagging material for the equipments installed inside the cabinet with Power Feeder and ATS.	1	NO			Tekpan

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A16 Other Systems

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<p>Note: Please note that our quotation is done to the best of our knowledge with the information provided in the inquiry and it is based on the following condition:</p> <p>1. The quantity quoted for the above system was based on RFQ docs under:</p> <p>CNI_BOQ_P-AGSA_Rev.B</p> <p>2. Note that our proposed Other Systems is for a preliminary proposal and subject to change at a later stage.</p> <p>3. Cable and cable raceway are not provided unless stated.</p> <p>4. Any items not quoted in the quotation will be provided by others.</p> <p>5. All incoming power to the equipment will be provided by others.</p> <p>6. Site commissioning and supervision are quoted as a diem rate.</p>					

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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<u>PAGA System</u>					
1.1	Loudspeaker 6W (8W)	16	SET	110.00	1,760.00	
1.1.1	P/N: HP-8 T 100V, RAL 7035, MP-2,5	1	NO			DNH
1.2	Loudspeaker 6W (8W) (Explosion proof)	1	SET	525.00	525.00	
1.2.1	P/N: DSP-15 EExmNT IIB, 100V, 8W, 2xM20 Blind plug, SSB	1	NO			DNH
1.3	Loudspeaker 25W (Explosion proof)	38	SET	525.00	19,950.00	
1.3.1	P/N: DSP-15 EExmNT IIB, 100V, 25W, 2xM20 Blind plug, SSB	1	NO			DNH
1.4	Ceiling Speaker 1W (1.5W)	124	SET	105.00	13,020.00	
1.4.1	P/N: BPF-660 T 70/100V, 8W	1	NO			DNH



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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	<u>Radio System</u>					
2.1	Omni-directional Antenna	2	SET	1,069.00	2,138.00	Comrod
2.1.1	P/N: AV51BI4 AV51BI4, VHF Marine Antenna: - Frequency: 156-162 MHz - Gain: 3dB - Max power: 100 W - Mounting bracket	1	NO			
2.2	Ceiling Omni-antenna	2	SET	393.00	786.00	
2.2.1	VHF Indoor Ceiling Mount Omni Antenna 134-960MHz 2dBi	1	NO			
2.3	Hand Portable Radio (IS)	5	SET	3,066.00	15,330.00	Cobham Satcom
2.3.1	P/N: Sailor SP3540 SAILOR SP3540, Ex VHF Portable Radio (Intrinsically safe: II 2G Ex ib IIC T4), including: - Transceiver - Belt Clip - Lanyard - Lithium Battery (primary battery) - Li-Ion Rechargeable Battery - Single Charger	1	NO			
2.4	Multiway Charger for Radio	2	SET	790.00	1,580.00	Cobham Satcom
2.4.1	Dual Charger	1	NO			

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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
2.5	Single Charger for Radio	2	SET	583.00	1,166.00	Cobham Satcom
2.5.1	Single Battery Charger	1	NO			
	<u>CCTV System</u>					
3.1	Dome camera (security) - Indoor	2	SET	276.00	552.00	Dahua
3.1.1	P/N: DH-IPC-HDBW5241E-ZE 2MP IR Vari-focal Vandal-proof Dome WizMind Network Camera	1	NO			
3.1.2	P/N: DH-PFA101 Mount Adapter	1	NO			
3.2	Dome camera (security) - Weatherproof Outdoor	10	SET	276.00	2,760.00	Dahua
3.2.1	P/N: DH-IPC-HDBW5241E-ZE 2MP IR Vari-focal Vandal-proof Dome WizMind Network Camera	1	NO			
3.2.2	P/N: DH-PFA101 Mount Adapter	1	NO			
3.3	Security camera - Explosionproof Outdoor	2	SET	2,636.00	5,272.00	Dahua
3.3.1	P/N: DH-ECA7B1231-HNP-XA-F 2MP 31 Starlight IR EXPLOSION-PROOF CAMERA	1	NO			
3.3.2	P/N: SDPJ008-7B1-316 Wall Mount Bracket	1	NO			



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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
3.4	PTZ CCTV camera - Explosionproof Outdoor	3	SET	8,589.00	25,767.00	Dahua
3.4.1	P/N: DH-EPC230U-PTZ-IR 2MP 30x Explosion-proof IR Network Positioning System	1	NO			
3.4.2	P/N: DH-ZAZ660B Wall Mount Bracket	1	NO			
3.5	Thermal CCTV camera - Fixed Explosionproof Outdoor	1	SET	26,460.00	26,460.00	Dahua
3.5.1	P/N: DHI-TPC-AEPT8441-T Thermal Anti-Explosion Hybrid PTZ Camera	1	NO			
	P/N: DH-ZAZ660B Wall Mount Bracket	1	NO			
	<u>Telephone System</u>					
4.1	IP Phone	16	SET	137.00	2,192.00	
4.1.1	P/N: KNPL-520 Support SIP2.0 (RFC3261) and correlative RFCs SIP support 2 SIP servers, and backup SIP proxy servers Display Resolution: 128x48 with Backlight IP rating:IP33 Power consumption:Idle 0.89W~1.2W Peak 1.81W~2.5W	1	NO			Koontech
	<u>Access Control System</u>					
5.1	Door status contact	20	SET	21.00	420.00	Dahua
5.1.1	P/N: DHI-ARD312 Breakglass DPDT	1	NO			

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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
5.2	Electromagnetic lock	12	SET	21.00	252.00	
5.2.1	P/N: SDS-168DPG Breakglass DPDT	1	NO			
5.3	Break glass unit	12	SET	21.00	252.00	Dahua
5.3.1	P/N: SDS-168DPG Breakglass DPDT	1	NO			
	<u>Security System</u>					
6.1	Security CCTV camera	12	SET	886.00	10,632.00	Dahua
6.1.1	P/N: DH-IPC-HF5241F-ZE 2MP IR Vari-focal Bullet Wizmind Box Network Camera	1	NO			
6.1.2	P/N: DH-PFL1040-A12PE Lens 10-40 mm	1	NO			
6.1.3	P/N: DH-PFH610N-IR-W Housing	1	NO			
6.1.4	P/N: DH-PFB604W Wall mount	1	NO			
6.2	Security PTZ CCTV camera	4	SET	1,307.00	5,228.00	Dahua
6.2.1	P/N: DH-SD6AL445GB-HNV-IR 4MP 45x Starlight IR PTZ Network Camera	1	NO			
6.2.2	P/N: DH-PFA150 Pole Mount	1	NO			



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C1 2years Maintenance Spares

S/N	Description	Qty	Unit	Unit Price in USD	Total Price in USD	Remarks
	Total For 2years Maintenance Spares In USD FOB Singapore				136,042.00	