



U.S. CONSULATE GENERAL, KARACHI.

U.S. Consulate General
Karachi, Pakistan
Date: Nov 27th, 2019

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Request Number: **PR8816566**
From: Procurement & Contracting Department
U.S. Consulate General
Plot No- 3, 4, 5, New TPX, Area
Mai Kolachi Road
Karachi, Pakistan.
E-mail: KRCProcurementContracting@state.gov
POC: Azmat Khan Phone: 92-21-320110 2218

RFQ-PR8816566 - KHI-FM:BAS Spare Parts for NSDA

The U.S. Consulate Karachi requires following items for FM, section and requests your participation in quoting for the said item(s), **quality should meet and exceed**. Please provide us cost, delivery charges and estimated delivery period of the following items to **U.S. Consulate General Plot No- 3, 4, 5, New TPX Are Mai Kolachi Road Karachi.**

Item Description:



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No.	Description	Qty	Unit
1	Automation station BACnet/IP Make Siemens PXC50-E.D Process unit (Up to 52 data point) Technical data Operating voltage AC 24 V Frequency 50/60 Hz Communication Bus: BACnet / IP Rate of transmission LON-bus: 78 kbps Ethernet / IP: 10/100 MBit/s Battery life 4 years Memory Flash: 32 MB , SDRAM: 64 MB Degree of protection IP20 Dimensions (W x H x D) 192 x 74 x 96 mm Made by SIEMENS Type PXC50-E.D Stock no. S55372-C110	1	each
2	Automation station BACnet/IP, with up to 200 data points PXC100-E.D Process unit (Up to 200 data point) Make Siemens Technical data Operating voltage AC 24 V Frequency 50/60 Hz Communication Bus: BACnet / IP Rate of transmission LON-bus: 78 kbps Ethernet / IP: 10/100 MBit/s Battery life 4 years Memory Flash: 32 MB , SDRAM: 64 MB Degree of protection IP20 Dimensions (W x H x D) 192 x 74 x 96 mm Made by SIEMENS Type PXC100-E.D Stock no. BPZ:PXC100-E.D	1	each



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3	<p>Automation station BACnet/IP, with more than 200 data points PXC200-E.D Process unit (Up to 350 data point) Make Siemens</p> <p>Technical data Operating voltage AC 24 V Frequency 50/60 Hz Communication Bus: BACnet / IP Rate of transmission LON-bus: 78 kbps Ethernet / IP: 10/100 MBit/s Battery life 4 years Memory Flash: 32 MB , SDRAM: 64 MB Degree of protection IP20 Dimensions (W x H x D) 192 x 74 x 96 mm Made by SIEMENS Type PXC200-E.D Stock no. BPZ:PXC200-E.D</p>	1	each
4	<p>TXS1.12F10 Power Supply Module 24VDC, 1.2A TX-I/O Power Supply Modules 24 VDC Supply 1200 mA, 10 A Fuse Make Siemens</p> <p>Technical data Weight 0.309 kg Dimensions (W x H x D) 96 x 77.5 x 98 mm Made by SIEMENS Type TXS1.12F10 Stock no. BPZ:TXS1.12F10</p>	5	each
5	<p>16 Digital Input Module TXM1.16D 16 I/O digital input module</p> <p>Technical data Power consumption 1.4 W Digital inputs, number 16 Weight 0.199 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.16D Stock no. BPZ:TXM1.16D</p>	10	each
6	<p>8 Digital Input Module TXM1.8D 8 I/O digital input module</p> <p>Technical data Power consumption 1.1 W Digital inputs, number 8 Weight 0.164 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.8D Stock no. BPZ:TXM1.8D</p>	2	each



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7	<p>6 Relay output module with Override TXM1.6R-M 6 I/O relay module with LO/ID</p> <p>Technical data Power consumption 1.9 W Weight 0.241 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.6R-M Stock no. BPZ:TXM1.6R-M</p>	5	each
8	<p>8 Universal I/O Module TXM1.8U 8 I/O universal module (DI, AI, AO)</p> <p>Technical data Power consumption 1.5 W Weight 0.179 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.8U Stock no. BPZ:TXM1.8U</p>	20	each
9	<p>Address Keys 1-24 + 2 reset keys TXA1.K24 Address Key: 1-24 + Reset</p> <p>Technical data Made by SIEMENS Type TXA1.K24 Stock no. BPZ:TXA1.K24</p>	1	each
10	<p>8 Universal I/O Module, Override and LCD</p> <p>Technical data Power consumption 1.8 W Weight 0.202 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.8U-ML Stock no. BPZ:TXM1.8U-ML</p>	8	each
11	<p>8 Universal I/O Module, 4-20mA,</p> <p>Technical data Power consumption 2.2 W Weight 0.194 kg Dimensions (W x H x D) 64 x 77.5 x 98 mm Made by SIEMENS Type TXM1.8X Stock no. BPZ:TXM1.8X</p>	10	each



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12	<p>Address keys 25-48 + 2 reset keys</p> <p>Technical data</p> <p>Made by SIEMENS</p> <p>Type TXA1.K-48</p> <p>Stock no. BPZ:TXA1.K-48</p>	2	each
13	<p>System controller for the integration of KNX, M-Bus, Modbus or SCL over BACnet/IP</p> <p>Technical data</p> <p>Operating voltage AC 24 V</p> <p>Frequency 50/60 Hz</p> <p>Communication Bus: BACnet / IP</p> <p>Rate of transmission LON-bus: 78 kbps</p> <p>Ethernet / IP: 10/100 MBit/s</p> <p>Battery life 10 years</p> <p>Memory Flash: 32 MB , SDRAM: 64 MB</p> <p>Degree of protection IP20</p> <p>Dimensions (W x H x D) 272 x 70 x 134 mm</p> <p>Made by SIEMENS</p> <p>Type PXC001-E.D</p> <p>Stock no. S55372-C114</p>	3	each
14	<p>Room temperature sensor LG-Ni1000</p> <p>Technical data</p> <p>Sensing element, temperature LG-Ni1000</p> <p>Time constant 7 min</p> <p>Measuring range, temperature 0...50 °C</p> <p>Measurement accuracy At 0...50 °C: ±0.8 ° K</p> <p>Connection, electrical Screw terminals</p> <p>Degree of protection IP30</p> <p>Dimensions (W x H x D) 90 x 100 x 32 mm</p> <p>Made by SIEMENS</p> <p>Type QAA24</p> <p>Stock no. BPZ:QAA24</p>	15	each
15	<p>Outside sensor LG-Ni1000</p> <p>Technical data</p> <p>Measuring range, temperature -50...70 °C</p> <p>Sensing element, temperature LG-Ni1000</p> <p>Time constant 14 min</p> <p>Measurement accuracy At 0 °C: ±0.4 K</p> <p>Connection, electrical Screw terminals</p> <p>Material Plastic (ASA)</p> <p>Degree of protection IP54</p> <p>Dimensions (W x H x D) 80 x 92 x 50 mm</p> <p>Made by SIEMENS</p> <p>Type QAC22</p> <p>Stock no. BPZ:QAC22</p>	2	each



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16	<p>Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket</p> <p>Technical data Sensing element, temperature LG-Ni1000 Measurement accuracy At -30...130 °C: ±1.3 K Measuring range, temperature -30...130 °C Time constant With protection pocket: 30 s Immersion length 100 mm Protection pocket Protection pocket included, PN 10 Material, immersion pocket Stainless steel Connection, electrical Screw terminals Type of fixing Protection pocket G½ "</p> <p>Degree of protection IP42 Dimensions (W x H x D) 80 x 60 x 31 mm Made by SIEMENS Type QAE2120.010 Stock no. BPZ:QAE2120.010</p>	15	each
17	<p>Duct temperature sensor 400 mm, LG-Ni1000</p> <p>Technical data Sensing element, temperature LG-Ni1000 Measuring range, temperature -50...80 °C Measurement accuracy At -50...80 °C: ±1.8 K Time constant At v = 2 m/s: 30 s Capillary length 400 mm Probe length 400.00 mm Connection, electrical Screw terminals Type of fixing Flange Degree of protection IP42 Dimensions (W x H x D) 80 x 61 x 31 mm Made by SIEMENS Type QAM2120.040 Stock no. BPZ:QAM2120.040</p>	2	each
18	<p>Differential pressure sensor, -50...50 Pa, -100...100 Pa, 0...100 Pa</p> <p>Technical data Operating voltage AC 24 V, DC 13.5...33 V Power consumption 0.5 VA Analog output, signal DC 0...10 V Sensing element Pressure diaphragm Time constant 1 s Pressure connection Connection branch, 6.2 mm dia. Connection, electrical Screw terminals Measuring range, pressure -50...50 Pa, -100...100 Pa, 0...100 Pa Degree of protection IP42 Dimensions (W x H x D) 92 x 94 x 49 mm Made by SIEMENS Type QBM2030-1U Stock no. S55720-S244</p>	4	each



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19	<p>Differential pressure monitor, 100...1000 Pa</p> <p>Technical data Dimensions (W x H x D) 88 x 110 x 90 mm Connection, electrical Screw terminals Digital outputs 1-pin , Potential-free , Switchover contact Permissible operating pressure 7500 Pa Ambient temperature, operation -30...85 °C Mounting position Diaphragm vertical, pressure connection pointing downward Measuring range, pressure 100...1000 Pa Digital output, switching voltage DC 24 V / AC 24...250 V Digital output, switching current 0.01...5 (3) A Pressure connecton Connection branch, 6.2 mm dia. Degree of protection IP54 Dimension (∅ x L) 81 x 90 mm Made by SIEMENS Type QBM81-10 Stock no. BPZ:QBM81-10</p>	5	each
20	<p>Differential pressure monitor, 20...300 Pa</p> <p>Technical data Dimensions (W x H x D) 88 x 110 x 90 mm Connection, electrical Screw terminals Digital outputs EPU , Potential-free , Switchover contact Permissible operating pressure 7500 Pa Ambient temperature, operation -20...85 °C Mounting position Diaphragm vertical, pressure connection pointing downward Measuring range, pressure 20...300 Pa Digital output, switching voltage DC 24 V / AC 24...250 V Digital output, switching current 0.01...5 (3) A Pressure connecton Connection branch, 6.2 mm dia. Degree of protection IP54 Dimension (∅ x L) 81 x 90 mm Made by SIEMENS Type QBM81-3 Stock no. BPZ:QBM81-3</p>	20	each



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21	<p>Duct sensor for humidity (0...10 V) and temperature (Ni1000)</p> <p>Technical data Operating voltage AC 24 V, DC 13.5...35 V Sensing element, temperature LG-Ni1000 Measuring range, temperature 0...50 °C, -35...35 °C, -40...70 °C Measurement range humidity 0...95 % r.h. Measurement accuracy Humidity at 30...70 % r.h. and 23 °C: ±3 % r.h., Temperature, at 15...35 °C: ±0.8 K, Temperature, at 35...50 °C: ±1.0 K Time constant Humidity: <20 s, Temperature in with 2 m/s moved air: <3.5 min Immersion length 90...154 mm Connection, electrical Screw terminals Type of fixing Flange Analog output, signal DC 0...10 V, DC 4...20 mA Signal output temperature LG-Ni1000 Signal output humidity DC 0...10 V Degree of protection IP54 Dimensions (W x H x D) 80 x 88 x 39 mm Made by SIEMENS Type QFM2120 Stock no. BPZ:QFM2120</p>	4	each
22	<p>Duct air quality sensor CO2</p> <p>Technical data Immersion length 70...135 mm Operating voltage AC 24 V, DC 15...35 V Power consumption 2 VA Analog output, signal DC 0...5 V, DC 0...10 V Measuring range CO2: 0...2000 ppm Max. air velocity ≤ 10 m/s Ambient temperature, operation -5...45 °C Time constant CO2: Connection, electrical Screw terminals Degree of protection IP54 Dimensions (W x H x D) 80 x 88 x 243 mm Made by SIEMENS Type QPM2100 Stock no. BPZ:QPM2100</p>	2	each



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23	<p>Duct sensor for air velocity</p> <p>Technical data Operating voltage AC / DC 24 V Power consumption 5 VA Measuring range 0...10 m/s, 0...15 m/s, 0...5 m/s Measurement accuracy At 20 °C, 45 % r.h., 1013 hPa: ±0.65 m/s Connection, electrical Screw terminals Cable length 1.00 m Immersion length 30...300 mm Analog output, signal DC 0...10 V, DC 4...20 mA Degree of protection IP42 Dimensions (W x H x D) 86 x 43 x 117 mm Made by SIEMENS Type QVM62.1 Stock no. BPZ:QVM62.1</p>	2	each
24	<p>Duct sensor for humidity (DC 0...10 V)</p> <p>Technical data Operating voltage AC 24 V, DC 13.5...35 V Measurement range humidity 0...95 % r.h. Measurement accuracy Humidity at 30...70 % r.h. and 23 °C: ±3 % r.h., Temperature, at 15...35 °C: ±0.8 K, Temperature, at 35...50 °C: ±1.0 K Time constant Humidity: <20 s, Temperature in with 2 m/s moved air: <3.5 min Immersion length 90...154 mm Connection, electrical Screw terminals Type of fixing Flange Analog output, signal DC 0...10 V, DC 4...20 mA Signal output humidity DC 0...10 V Degree of protection IP54 Dimensions (W x H x D) 80 x 88 x 39 mm Made by SIEMENS Type QFM2100 Stock no. BPZ:QFM2100</p>	2	each



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25	<p>Room air quality sensor CO2</p> <p>Technical data Power consumption 2 VA Time constant CO2: Operating voltage AC 24 V, DC 15...35 V Analog output, signal DC 0...5 V, DC 0...10 V Measuring range CO2: 0...2000 ppm Ambient temperature, operation 0...50 °C Connection, electrical Screw terminals Degree of protection IP30 Dimensions (W x H x D) 90 x 100 x 36 mm Made by SIEMENS Type QPA2000 Stock no. BPZ:QPA2000</p>	4	each
26	<p>Room unit with room temperature sensor and setpoint readjuster -3...3 K</p> <p>Technical data Setpoint readjustment range -3...3 K Measuring range, temperature 0...50 °C Sensing element, temperature LG-Ni1000 Time constant 7 min Connection, electrical Screw terminals Degree of protection IP30 Dimensions (W x H x D) 90 x 100 x 36 mm Made by SIEMENS Type QAA27 Stock no. BPZ:QAA27</p>	15	each
27	<p>Solid core current switch with adjustable set point, amperage range 1 to 135 A.</p> <p>Specifications Output Isolated, 1 A @ 30 VAC/DC max, NO. External Relay SPST N.O., 10 A at 260 VAC (5 A at 30 VDC). Power Requirements None, self-powered. Stroke >1.2 mm Temperature Limits 5 to 140°F (-15 to 60°C). Isolation Voltage 600 VAC RMS. Frequency 50/60 Hz. Enclosure Rating UL, 94 V-O flammability rated, ABS plastic housing. Agency Approvals CE, cULus.</p>	15	each



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28	<p>Room thermostat with KNX communications, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/ 3-speed, DC), valves (2-point, DC)</p> <p>Technical data Operating voltage AC 24 V Power consumption 2 VA / 2 W Setpoint setting range 5...40 °C Switching differential Heating: 0.5...6 K Cooling: 0.5...6 K Communication Bus: KNX (S-Mode und LTE-Mode mit Synco 700) Analog inputs, number 2 Analog outputs Valve, el. heater: 2 , Fan: 1 (ECM) Analog outputs, number 3 Analog output, signal DC 0...10 V Analog output, current Max. ±1 mA Digital inputs, number 1 Relay outputs Valve, compressor or el. heater: 2 outputs, 2-position , Fan: 1- or 3-speed Relay outputs, number 3 Relay output, switching voltage AC 24...230 V Relay output, switching current 5 (4) A Type of fixing Wall mounting with screws Degree of protection IP30 Dimensions (W x H x D) 93 x 128 x 30.8 mm Color Not necessary Made by SIEMENS Type RDG160KN Stock no. S55770-T297</p>	5	each
29	<p>Power supply unit DC 29 V, 640 mA with additional unchoked output, N 125/22</p> <p>Technical data Dimension width (1 MW = 18 mm) 4 MW Additional info The optional data rail must be ordered separately. Made by SIEMENS Type N 125/22 Stock no. 5WG1125-1AB22</p>	1	each



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30	<p>Combi valves, PN25, DN15, 100...575 l/h, pressure test points</p> <p>Technical data PN class PN 25 DN 15kvs Stroke 2.5 mm Leakage rate Class IV (0...0.01% of volumetric flow V100) Volumetric flow V 575.00 l/h Volumetric flow Vmin 100.00 l/h Medium Water , Water with anti-freeze Medium temperature 1...120 °C Ambient temperature, operation 1...50 °C Valve characteristic Linear Permissible operating pressure 2500 kPa Material, valve body Dezincification resistant brass, DR, CW602N Material, inside set Dezincification resistant brass (DR), CW602N, stainless steel, PPS Connecting thread G ¾ "</p> <p>Mounting position Upright to 90° inclined Δpmax 400 kPa ΔPmin 19.00 kPa SSA.. Δpmax 400 kPa SSA.. ΔPmin 19 kPa STA..3.. Δpmax 400 kPa STA..3.. ΔPmin 19 kPa STP..3.. Δpmax 400 kPa STP..3.. ΔPmin 19 kPa Made by SIEMENS Type VPP46.15L0.6Q Stock no. S55264-V107</p>	2	each
31	<p>Brass fitting G ¾" / R ½", set of 2</p> <p>Technical data Connecting thread, pipe side R ½ " Connecting thread, valve side G ¾ " Material Brass Made by SIEMENS Type ALG142 Stock no. BPZ:ALG142</p>	2	each



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32	<p>Combi valves, PN25, DN20, 220...1330 l/h, pressure test points</p> <p>Technical data PN class PN 25 DN 20kvs Stroke 5 mm Leakage rate Class IV (0...0.01% of volumetric flow V100) Volumetric flow V 1330.00 l/h Volumetric flow Vmin 220.00 l/h Medium Water , Water with anti-freeze Medium temperature 1...120 °C Ambient temperature, operation 1...50 °C Valve characteristic Linear Permissible operating pressure 2500 kPa Material, valve body Dezincification resistant brass, DR, CW602N Material, inside set Dezincification resistant brass (DR), CW602N, stainless steel, PPS Connecting thread G 1 " Mounting position Upright to 90° inclined Δpmax 400 kPa ΔPmin 22.00 kPa SSA.. Δpmax 400 kPa SSA.. ΔPmin 22 kPa STA..3.. Δpmax 400 kPa STA..3.. ΔPmin 21 kPa STP..3.. Δpmax 400 kPa STP..3.. ΔPmin 21 kPa Made by SIEMENS Type VPP46.20F1.4Q Stock no. S55264-V108</p>	15	each
33	<p>Malleable cast iron fitting G 1" / Rp ½", set of 2</p> <p>Technical data Connecting thread, pipe side Rp ½ " Connecting thread, valve side G 1 " Material Phosphated malleable cast iron Made by SIEMENS Type ALG152 Stock no. BPZ:ALG152</p>	15	each



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34	<p>Combi valves, PN25, DN25, 280...1800 l/h, pressure test points</p> <p>Technical data PN class PN 25 DN 25 kvs Stroke 5.5 mm Leakage rate Class IV (0...0.01% of volumetric flow V100) Volumetric flow V 1800.00 l/h Volumetric flow Vmin 280.00 l/h Medium Water , Water with anti-freeze Medium temperature 1...120 °C Ambient temperature, operation 1...50 °C Valve characteristic Linear Permissible operating pressure 2500 kPa Material, valve body Dezincification resistant brass, DR, CW602N Material, inside set Dezincification resistant brass (DR), CW602N, stainless steel, PPS Connecting thread G 1 1/4 " Mounting position Upright to 90° inclined Δpmax 400 kPa ΔPmin 39.00 kPa SSA.. Δpmax 400 kPa SSA.. ΔPmin 39 kPa STA..3.. Δpmax 400 kPa STA..3.. ΔPmin 39 kPa Made by SIEMENS Type VPP46.25F1.8Q Stock no. S55264-V123</p>	2	each
35	<p>Malleable cast iron fitting G 1¼" / Rp ¾", set of 2</p> <p>Technical data Connecting thread, pipe side Rp ¾ " Connecting thread, valve side G 1¼ " Material Phosphated malleable cast iron Made by SIEMENS Type ALG202 Stock no. BPZ:ALG202</p>	2	each



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36	<p>Combi valves, PN25, DN32, 550...4000 l/h, pressure test points</p> <p>Technical data PN class PN 25 DN 32 kvs Stroke 5.5 mm Leakage rate Class IV (0...0.01% of volumetric flow V100) Volumetric flow V 4000.00 l/h Volumetric flow Vmin 550.00 l/h Medium Water , Water with anti-freeze Medium temperature 1...120 °C Ambient temperature, operation 1...50 °C Valve characteristic Linear Permissible operating pressure 2500 kPa Material, valve body Dezincification resistant brass, DR, CW602N Material, inside set Dezincification resistant brass (DR), CW602N, stainless steel, PPS Connecting thread G 1 1/2 " Mounting position Upright to 90° inclined Δpmax 400 kPa ΔPmin 28.00 kPa SSA.. Δpmax 400 kPa SSA.. ΔPmin 28 kPa STA..3.. Δpmax 400 kPa STA..3.. ΔPmin 24 kPa Made by SIEMENS Type VPP46.32F4Q Stock no. S55264-V124</p>	1	each
37	<p>Malleable cast iron fitting G 1½" / Rp 1", set of 2</p> <p>Technical data Connecting thread, pipe side Rp 1 " Connecting thread, valve side G 1½ " Material Phosphated malleable cast iron Made by SIEMENS Type ALG252 Stock no. BPZ:ALG252</p>	1	each



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38	<p>Electromotoric actuator, 100 N, 2.5/5 mm, AC/DC 24 V, 1.5 m, DC 0...10 V</p> <p>Technical data Δp_{max} 400 kPa, 200 kPa, 150 kPa Δp_s Operating voltage AC 24 V, DC 24 V Stroke 2.5 mm, 5 mm Positioning signal DC 0...10 V Positioning force 100 N Cable length 1.50 m Power consumption 2.5 VA Positioning time 34 s Degree of protection IP40 Ambient temperature, operation 1...50 °C Medium temperature 1...110 °C Ambient humidity, operation 5...85 % r.h. Mounting position Upright to 90° inclined Auxiliary switch 0 Color White/Gray Made by SIEMENS Type SSA61 Stock no. BPZ:SSA61</p>	20	each
39	<p>2-port valve, flanged, PN16, DN65, kvs 50</p> <p>Technical data PN class PN 16 DN 65 kvs 50.00 m³/h Stroke to DN80: 20 mm, from DN100: 40 mm Leakage rate 0...0.02% of the kvs value kvs 50 m³/h Medium temperature -10...150 °C Valve characteristic Equal percentage , kvs 250/400 linear Rangeability DN 15 .. 25: >50 , DN 32...150: >100 Permissible operating pressure 1600 kPa Material, valve body Cast iron EN-GJL-250 Material, inside set ≤ DN40: CrNi steel / brass , ≥ DN50: CrNi steel / bronze SAX.. Δp_{max} 150 kPa SAX.. Δp_s 200 kPa SKD.. Δp_{max} 200 kPa SKD.. Δp_s 250 kPa SKB.. Δp_{max} 400 kPa SKB.. Δp_s 700 kPa Made by SIEMENS Type VVF42.65-50 Stock no. S55204-V111</p>	1	each



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40	<p>3-port seat valve, external thread, PN16, DN40, kvs 25</p> <p>Technical data PN class PN 16 DN 40 kvs 25.00 m³/h Stroke 20 mm Leakage rate 0...0.02 % of kvs value Leakage rate bypass Standard version: 0.5...2 % of kvs value Special version: 0...0.02 % of kvs value (VXG41..01) kvs 25 m³/h Medium temperature -25...150 °C Valve characteristic Throughport: equal-percentage , Bypass: linear Rangeability DN 15: > 50 , DN 20...50: > 100 Permissible operating pressure 1600 kPa Material, valve body Bronze CuSn5Zn5Pb2 (CC499K) Material, inside set CrNi steel Connecting thread G 2¼ B " SQX.. Δpmax 525 kPa SAX.. Δpmax 525 kPa SKD.. Δpmax 775 kPa SKB.. Δpmax 800 kPa Made by SIEMENS Type VXG41.40 Stock no. BPZ:VXG41.40</p>	1	each
41	<p>Malleable cast iron fitting G 2¼" / Rp 1½", set of 3</p> <p>Technical data Connecting thread, pipe side Rp 1½ " Connecting thread, valve side G 2¼ " Material Phosphated malleable cast iron Made by SIEMENS Type ALG403 Stock no. BPZ:ALG403</p>	2	each



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42	<p>Electrohydraulic actuator, 1000 N, 20 mm, AC 24 V, DC 0...10 V/4...20 mA, spring return</p> <p>Technical data Δp_{max} 1600 kPa, 800 kPa, 450 kPa, 400 kPa, 200 kPa, 125 kPa, 1200 kPa, 1100 kPa, 650 kPa, 775 kPa Δp_s 750 kPa, 1600 kPa, 450 kPa, 4000 kPa, 2500 kPa, 2250 kPa, 775 kPa, 1000 kPa, 250 kPa, 175 kPa, 2100 kPa, 1200 kPa, 1275 kPa Operating voltage AC 24 V Positioning signal DC 0...10 V, DC 4...20 mA, 0...1000 Ohm Power consumption 14 VA Positioning force 1000 N Positioning time Open 30 s, Close 15 s Stroke 20 mm Spring return function Yes (15 s) Position feedback DC 0...10 V, DC 4...20 mA Degree of protection IP54 Medium temperature -25...150 °C Ambient temperature, operation -15...50 °C Mounting position Upright to horizontal Made by SIEMENS Type SKD62 Stock no. BPZ:SKD62</p>	2	each
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	<p>2-port seat valve, external thread, PN16, DN50, kvs 40</p> <p>Technical data PN class PN 16 DN 50 kvs 40.00 m³/h Stroke 20 mm Leakage rate 0...0.02 % of kvs value Connecting thread G 2¾ B " kvs 40 m³/h Medium temperature -25...150 °C Valve characteristic Equal percentage Rangeability DN 15: >50 , DN 20...50: >100 Permissible operating pressure 1600 kPa Material, valve body Bronze CuSn5Zn5Pb2 (CC499K) Material, inside set CrNi steel Absolute pressure p1 steam 300.00 kPa abs SQX.. Δpmax 300 kPa SQX.. Δps 300 kPa SAX.. Δpmax 300 kPa SAX.. Δps 300 kPa SKD.. Δpmax 450 kPa SKD.. Δps 450 kPa SKB.. Δpmax 800 kPa SKB.. Δps 1225 kPa Made by SIEMENS Type VVG41.50 Stock no. BPZ:VVG41.50</p>	1	each
44	<p>Malleable cast iron fitting G 2¾" / Rp 2", set of 2</p> <p>Technical data Connecting thread, pipe side Rp 2 " Connecting thread, valve side G 2¾ " Material Phosphated malleable cast iron Made by SIEMENS Type ALG502 Stock no. BPZ:ALG502 Part 06 Damper Actuators</p>	1	each



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45	<p>Rotary air damper actuator, AC/DC 24 V, DC 0...10 V, 18 Nm, spring return 90/15 s, 2 auxiliary switches</p> <p>Technical data Torque 18.00 Nm Air damper area 3.00 m² Angular rotation 90 ° Power consumption 7 VA, 5 W Positioning time Opening with motor: 90 s, Closing with spring: 15 s Positioning signal DC 0...10 V Degree of protection IP54 Medium temperature -32...55 °C Dimensions (W x H x D) 100 x 300 x 75 mm Operating voltage AC 24 V, DC 24 V Auxiliary switch 2 Made by SIEMENS Type GCA166.1E Stock no. BPZ:GCA166.1E</p>	3	each
46	<p>Rotary air damper actuator, AC/DC 24 V, 2-position, 18 Nm, spring return 90/15 s, 2 auxiliary switches</p> <p>Technical data Torque 18.00 Nm Air damper area 3.00 m² Angular rotation 90 ° Power consumption 7 VA, 5 W Positioning time Opening with motor: 90 s, Closing with spring: 15 s Positioning signal 2-position Degree of protection IP54 Medium temperature -32...55 °C Dimensions (W x H x D) 100 x 300 x 75 mm Operating voltage AC 24 V, DC 24 V Auxiliary switch 2 Made by SIEMENS Type GCA126.1E Stock no. BPZ:GCA126.1E CM1N9222en_10 2014-03-31</p>	2	each



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47	Differential pressure sensor, 0...1000 Pa, 0...1500 Pa, 0...3000 Pa Technical data Operating voltage AC 24 V, DC 13.5...33 V Power consumption 0.5 VA Analog output, signal DC 0...10 V Sensing element Pressure diaphragm Time constant 1 s Pressure connection Connection branch, 6.2 mm dia. Connection, electrical Screw terminals Measuring range, pressure 0...1000 Pa, 0...1500 Pa, 0...3000 Pa Degree of protection IP42 Dimensions (W x H x D) 92 x 94 x 49 mm Made by SIEMENS Type QBM2030-30 Stock no. S55720-S246	4	each
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Prices:

Firm Fixed Price.

TAX: Your prices shall be duty/tax free. U.S. Consulate General Karachi will neither deduct nor pay any tax for this service.

Inspection & Acceptance:

A Government representative will inspect the service(s) delivered to determine the quality and acceptability. Substandard services/products shall be unacceptable at vendor's expense.

Payment Terms:

Payment will be made within 30 days through Electronic Funds Transfer (EFT) upon complete delivery to the US Consulate General, Karachi and submission of legitimate invoice to Financial Section after delivery, and submission of receipt.

SUBMISSION OF INVOICE:

Each invoice shall include vendor invoice number, purchase order/contract number, date issued, brief description of supplies/services provided, quantities, unit and total price, and signed by the signing authority.

Invoices must be routed to:

1. One original invoice in pdf format to the Financial Management Center to KarachiFMCInvoices@state.gov



U.S. CONSULATE GENERAL, KARACHI.

2. One copy clearly marked “DUPLICATE Copy for Proc & Contracting.
KRCProcurementContracting@state.gov

Although email is the preferred method, invoices may also be submitted by mail (do not send electronically if you mail the invoice to the following address to avoid duplication):

Karachi Fiscal Office
U.S. Consulate General
Plot No- 3, 4, 5, New TPX Are
Mai Kolachi Road
Karachi

For payment related queries contractor will contact Karachi Fiscal Office
KarachiFMCInquiries@state.gov. Contracting Officer takes no responsibility for payment and/or associated queries.

Contract Clauses:

FAR & DOSAR (attached) clauses will apply to this purchase order. These clauses can be accessed through following link:

http://aoepd.a.state.gov/Content/documents/overseas_comm-item-fac-2005-36.docx

52.249-2 Termination for Convenience of the Government (Fixed-Price)

(MAY 2004) Alternate I (APR 1984)

52.212-4 Contract Terms and Conditions--Commercial Items (May 2015)

52.212-5 Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items (Feb 2016)

Offer Due Date:

1. Please submit your quote on or before **Dec 10th, 2019** to **Procurement Contracting Officer, U.S. Consulate General Karachi**, or via Email to following email addresses:

KRCProcurementContracting@state.gov

No quote will be acceptable after the due date.

2. Please prepare a quotation on your company letterhead in accordance with the requested details of this RFQ.
3. Please provide reference of our Request Number **PR8816566**, in all your correspondence regarding this request for price quotation