

Pational Gazette

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No. G353]

Ex certified DP Transmitters

5

PORT MORESBY, FRIDAY, 5th MAY

[2017

90269000

Customs Tariff Act 1990.

EXEMPTION FROM IMPORT DUTY.

I, BOB DADAE, Governor-General, by virtue of the powers conferred by Section 9(1)(a) of the *Customs Tariff Act* 1990, and all other powers me enabling, acting with, and in accordance with, the advice of the National Executive Council, hereby exempt from import duty for the importation of these necessary Training Materials for a period of at least five (5) years, with effect on and from the date of import.

SCHEDULE. Column 3. Column 4. Column 5. Column 1. Column 2. Tariff Code Material Remark Category Quantity 1. SLPP: Main Process Equipment and Materials. Horizontal & Vertical Separators SA516 Carbon Steel 84213900 Feed Tank (Water) SA516 Carbon Steel 73101000 SA516 73101000 Feed Tank (Oil) 1 Carbon Steel Immersion Heater for Oil feed tank 1 Stainless Steel Element 18kW heating element from 85161000 Reach Electrical 84137000 Centrifugal pumps 11 Cast Iron Calpeda & Samson pumps Air Compressor 2 Mfr'std IR or equivalent 84144000 Piping A106B Carbon Steel 7304900 Steel structure 1 Lot Structural steel A36 1-channel c/w galvanized grating 73089010 25mm x 5mm thk 1 Stainless Steel 84195000 Plated Heater Exchanger Alfa Laval Carbon steel Beaver equivalent 84818000 Filter (cartridge and carbon filter) 11 sets Carbon steel 84213900 Pigging System 1 Carbon steel 73079900 2. SLPP: Field Instrumentation. Ex certified DP Transmitters 5 Stainless steel 4-20mADC (Yokogawa) 90269000

Stainless steel

4-20mADC (Yokogawa)

| Column 1. Category | Column 2. Quantity | Column 3. Material | | olumn 5. riff Code |
|---|-----------------------|---|--|-----------------------|
| Ex certified Temperature Transmitters | | SS thermo wells | 4-20mADC (Yokogawa) | 9025900 |
| Control valves with E/P positioners | | min Class V shut off | Samson, Valtek or Emerson | 8481800 |
| On/Off valves with solenoid valves | | | | 8481800 |
| | | min Class V shut off | Samson or Valtek | 150.00000 |
| Pressure Indicators | | Wika or Bourdon or equivalent | | 9026900 |
| Multicore, armoured screen cables | 24 | oquivalent | | 8544200 |
| Single pair, armoured, screen cables | | | | 8544200 |
| Armoured cables | | | Motor and start/stop switches | 8844200 |
| Certified Ex Junction boxes | | | | 8538100 |
| Compression fittings | | Stainless steel | 10mm tubing and double ferrule | 7307290 |
| | | | (Swagelok or equivalent) | |
| Certified electrical glands | | | (Hawke or equivalent) | 8544200 |
| 3. SLPP: Control Room Equipment. | | | | |
| Control room Operator Stations | 4pc | | Based system with 32" screens | 8471410 |
| Control room Engineering Stations | 1 pc | | Based system with 32" screens | 8471410 |
| | | | | |
| Centum system software | | Yokogawa | CPUs to provide control and | 8471410 |
| | | | monitoring functions, screen graphics | |
| Dedicated PLC | 1 | | Shut down, fire and gas | 8536500 |
| Marshalling cabinet, | 1 | Housing CPUs | 1/0 modules, power suppliers, | 8538100 |
| | | | cabling to/from field, Control room operator and engineering stations. | 1000000 |
| 4. SLPP: MCC System. | | | | |
| Power Distributions | | motors, heaters and plant lightening | | 8538900 |
| ndividual Rack Out Isolation | | motors and heaters | | 8535300 |
| Overload and earth leakage detection sy | stems. | | Repeated to DCS | 9030100 |
| Power Consumption | | Automatically Hourly/daily | readings repeated to DCS | 9028300 |
| Lock and Tag out capability | | 3,000,000,000,000,000,000,000,000,000,0 | A CONTRACTOR OF THE PARTY OF TH | 8310000 |
| Panel meter | | Voltage/Amps | | 9028300 |
| Bus bars | | | Overload relays and segregated | 8536490 |
| 5. SLPP Calibration Equipment, Tools | and Bulk Material | s. | terminals | |
| Weight Tester | T | | Dead | 9026900 |
| Bath temperature | 1 | | Deau | 9025900 |
| Oruck Pressure Calibrator | i | madium areassas | | 9025900 |
| Pressure Calibrator | 1 | medium pressure | | 9026900 |
| Standard gauges | 30 | low pressure | | |
| Flukes | set 4 | | | 9026800 |
| Stabiliser Power Supplies | 2 | MANDO | | 9030320 |
| Decade boxes | | 24VDC | | 8537100 |
| Brain Smart Hand Held Calibrators | 2 | M.h. | | 8538100 |
| Pipe Benders | 1 | Yokogawa | C | 8205590 |
| Electrical Crimping tools | 4 2 | Stainless steel | 6mm and 10mm OD piping | 8205590 |
| Electrical Crimping tools | | | | 8205590 |
| | 2 | | | 8205590 |
| Ferruling machine Drum | 1 | Circle and | | 8443990 |
| Arum . | 1 | Single pair, armoured, | | 8544200 |
| | | screen cables | | |
| ex Cable Glands | 100 | Hawke or equivalent) | | 8544200 |

| lant or | | Schedule—continuea | 1 60 | BOT - A |
|--|-----------------------|-----------------------|---|--------------------------|
| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
| OD SS Tubing | | | | 7303000 |
| OD SS Tubing | | | 6mm | 7303000 |
| 6. SLPP Structural Work Materials. | | | | |
| Structural Grade Universal Columns | | | various sizes | 7308901 |
| Structural Grade Universal Beams | | | various sizes | 7308901 |
| Structural grade Mild Steel Angle | | | various sizes | 7308901 |
| Mild Steel flat bar | | | various sizes | 7222300 |
| Pressure Grade Steel Pipes | | | various sizes & Schedules | 7305310 |
| Mild Steel Flanges | | | Various Size and Pressure rating | 7307210 |
| Piping Gaskets | | | various materials, ratings and thickness | 8484900 |
| High Tensile Bolts , Nuts and Washers. | | | Various diameters and lengths | 7318150 |
| Gasket cement/glue | | | | 3506990 |
| Graphite Grease | | | | 2710116 |
| Whip Checks | | | | 8544190 |
| Portable Hydraulics Hoist(s) | | | | 8425190 |
| Chain Blocks | | | various ratings and lengths | 8425190 |
| Slings | | | various ratings and materials | 7312900 |
| Ring Spanner Sets | | Metric | various sets | 8204200 |
| Flogging Spanners | | Metric | Various Sizes | 8204200 |
| Tension Wrench | | | various sizes /ratings | 8204120 |
| Spill Kits | | | various types and sizes | |
| 3006.50.00 | | | | |
| 7. Construction Program. | | | | |
| Shovels | | | | 8201100 |
| Cement | | | | 2523290 |
| Wood | | | | |
| 4402.00.00 | | | | |
| Metal | | | | |
| 8311.90.00 | | | | |
| Fencing Materials | 8 8 | | | |
| 7314.20.00 | | | | |
| Carpentry Tools | | | | 8205590 |
| Compactors | | | | 8430610 |
| Gravel/Cement Mixer | | | | 8474390 |
| Ladders | | | | 7616990 |
| Impact Wrench | | | | 8204120 |
| Sledge Hammer | | | | 8205200 |
| Concrete Cutter | | | | 8461500 |
| Chain Blocks | | | | 8425190 |
| Bolt Cutter Jig Saw | | | | 8203400 8202100 |
| 8. Welding Program. | | | | |
| Welding Machine | | | | 8468800 |
| Plate Rolles | | | | 8515900 |
| Brake Press | | | | 8515900 |
| Weld Brake Press | | | | 8515900 |
| Universal Crop & Punch Machine | | | | 8203400 |
| Reciprocating metal Cutting Saw | | | | 8461500 |
| Lathe | | | | 8458910 |

| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
|--|-----------------------|---|---------------------|--------------------------|
| Hand and power tools | | | | 82055900 |
| Welding Materials & Consumables | | | | 85159000 |
| 9. Drilling Programme. | | | | |
| Drilling Simulator | | | | 90230000 |
| Drilling Equipment | | | | 90230000 |
| 10. Mechanical Program. | | | | |
| Mechanic Tool Set | | | | 82055900 |
| Engine Block | | | | 84099100 |
| Fuel Injection Systems | | | | 84129000 |
| Ring Spanner (Set) | | | | 82041200 |
| 11. Cookery Program. | | | | |
| Industrial Kitchen Equipment | | | | 73239900 |
| Kitchen Hand Tool | | | | 73239900 |
| Aprons | | | | 63029100 |
| Hairnets | | | | 65059000 |
| Chef Whites | | | | 63029100 |
| Cutleries | | | | 82151000 |
| 12. Others. | | | | |
| Computers and Accessories | | Laptops, monitors, keyboards and mouse, v Mouse/KB, Ipads | vireless | 84714100 |
| Printers/Photocopiers | | The second second | | 84431200 |
| Overhead Projectors and screens | | | | 90083000 |
| IT Tools | | | | 82055900 |
| Data Network Server | | Switches, Satellite Dishes | S | 84718000 |
| Telephone | | Handset and Mobile Phor | nes | 85171900 |
| UPS Systems | | | | 85044000 |
| CCTV Cameras | | | | 85254000 |
| Office Consumables | | | | 39261000 |
| Motor Vehicles | | | | 87032310 |
| Forklift | | | | 84271000 |
| Backhoe | | 40.540 | | 84264100 |
| Test Engines 25 Tonne Crane | | Heavy Equipment, Gener | ator | 84128000 |
| Scaffolding | | | | 84261100 |
| Gas Testing Equipment | | | | 73084000 90271000 |
| Breathing Apparatus | | | | 90201000 |
| Switchboards | | | | 85381000 |
| Rigging & Lifting Equipment | | | | 84281000 |
| Refrigeration Equipment | | Fridge, Freezer & Chiller | Units, | 84176900 |
| | | Compressor units, AC U | Jnits | |
| Electrical consumables | | | | 84735000 |
| Electrical Parts | | | | 84732900 |
| Pumps and Motors | | | | |
| 84138100/84128000 | | | | |
| Plumbing Material and Tools | | 500 PM 17 SO 1 S | | 82055900 |
| Industrial Laundry Equipment 84501100 | | Washing machine, Dryer | | 84501100, |
| PPE | | | | 90049000 |
| Chairs | | Plastic, Wooden | | 94037000, |
| | | 2,000,000 | | 94036000 |

| | | 4 | |
|--|--|---|--------------------------|
| Column 1. Colum Category Quan | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Column 5. Fariff Code |
| Bed Frames | | | 94035000 |
| Mattresses | | | 94042900 |
| Televisions | | | 85287200 |
| DVD Players | | | 85199300 |
| Sound Systems | | | 85185000 |
| PA Systems | | | 85184030 |
| Bed Linen | | | 63021000 |
| Foiletry Consumables | | | 96050000 |
| Lockers Recreation Equipment. | | | 83030000 |
| Sym Equipment | | | 95069100 |
| Soccer Table Set | | | 95049090 |
| Table Tennis Table set | | | 95049090 |
| Balls | | | |
| Badminton set | | | 95066200 |
| Chess Boards | | | 95049090 |
| Whistles | | | 95049090 |
| | | | 92089000 |
| Exercise Mats Dart Board & Arrows | | | 95089000 |
| | | | 95049020 |
| /olleyBall sets | | | 95066200 |
| Pool Table set | | | 95049090 |
| irst Aid Equipment | | | 30065000 |
| Medical Equipment Mechandise Items. | | | 90039000 |
| Imbrellas | | | 66019900 |
| Caps & Hats | | | 65050000 |
| Scarfs | | | 61171000 |
| Ties | | | 61172000 |
| Vrist Bands | | | 40159000 |
| anyards | | | 63079090 |
| lip Flops | | | 64039900 |
| ull-up Banners | | | 39234300 |
| Calenders | | | 49100000 |
| Polo Shirts | | | 62059000 |
| Cites | | | 95055000 |
| osters | | | 49119990 |
| olar Panels | | | 94055000 |
| Solar Lighting | | | 94055000 |
| colar Equipments and Accessories | | | 94055000 |
| Vater Heaters | | | 84022000 |
| Water Filters and Purifiers | | | 84212100 |
| 3. SSOW(Safe System of Work) Isolations training skid. | | | |
| | | | |
| ntegrated Safe System of Work Skid | Different isolation scenarios eg: ground floor/working | monted on gratings with removabl handrails & gates | e 73084000 |
| 1 | at height | | |
| Closed loop system consisting of the following n | on-live equipment. | | |
| mall electrical heating vessel | | | 84189000 |
| IV Breaker (non-live) | | Located adjacent to Skid | 84199000 |
| ipework of various pressure ratings | Heating vessels to pumps (parallel) | | 841990 |
| Centrifugal pump + Motor (LV) & Positive displa | | Separated inlet pipework from | 84137000 |
| oump + Motor (LV). | | Heating vessel. | 2,72,7000 |

| Column 1. Column 2. Category Quantity | Column 3. Material | Column 4. Remark | Column 5, Tariff Code | | | |
|---|--|---------------------|---|--|--|--|
| Dumin stor/start huttons | | | 39235090 | | | |
| Pump stop/start buttons Junction Boxes | | | 85381000 | | | |
| Cabling & Glanding | | | 900000000000000000000000000000000000000 | | | |
| Flow Control Valves, Level Control | | | 85442000 | | | |
| Valves & Pressure Control Valves. | | | 84818000 | | | |
| PSVS | | | 84811000 84814000 | | | |
| Strainers/Filters | | | | | | |
| Meters | | | 84219900 | | | |
| | | | 84199000 | | | |
| Isolation valves (various types) for single valve isolation & Double, Block, | | | 84818000 | | | |
| Bleed isolation. | | | | | | |
| Drain valves. | | | 84818000 | | | |
| Closed Drain System & Open Drain System. | | | 90230000 | | | |
| Spectacle Blinds | | | | | | |
| Pressure, Level, Temperature & Flow | | | 73072100 90262000 | | | |
| Transmitters & gauges. | | | 90251900 | | | |
| Transmitters & gauges. | | | 90261000 | | | |
| Small bore instrumentation pipework to/ | | | 841990 | | | |
| from all control loops (Swagelok - Imperial). | | | 641990 | | | |
| Flow Meters (Orifice) | | | 90261000 | | | |
| Lighting | | | 94054000 | | | |
| | | | 94034000 | | | |
| 14. Static & Rotating Equipment Skid/Lab Mechanical. | | | | | | |
| Gear boxes various types (cut away) | | | 87084000 | | | |
| Gear boxes various types - for strip down/reassembly. | | | 87084000 | | | |
| Heat Exchangers various types - Shell and Tube, Plate, Air & Water (cut away). | leat Exchangers various types - Shell and | | | | | |
| Small Laser Alignment Pump Skid. 2 | | | 04130100 | | | |
| Small Pumps various types (cut away). | | | 84138100 84138100 | | | |
| Small Pumps various types - for strip down/reassembly. | | | 84138100 | | | |
| Cut away Valves - various types | | | 84814000 | | | |
| Cut away PSV's - various types | | | 84814000 | | | |
| Cut away Control Valves - various types. | | | 84814000 | | | |
| Cut away Air/Hydraulic Actuators - various types. | | | 84814000 | | | |
| Small Positive Displacement (Piston) Compressor - Cut away. | | | 84136000 | | | |
| Centrifugal Compressor - Cut away | | | 841480 | | | |
| Pneumatic Training Station | | | 90230000 | | | |
| Hydraulic Training Station | | | 90230000 | | | |
| Selection of couplings | | | 84836000 | | | |
| Cut away Internal Combustion Engines - Diesel/Petrol | | | 84089000 | | | |
| 15. Instrumentation Training Station. | | | 0.100,000 | | | |
| 15.1 Pressure Training Station. | | | 90230000 | | | |
| Small bore instrument tubing (Swagelok -Imperial) | | | 830710 | | | |
| function boxes, cabling, glanding, cable trays, unistrut etc. | | | 853100, | | | |
| | | | 854420 | | | |
| Block Manifold | 5 way | | 848180 | | | |
| Pressure gauges | | Various | 902620 | | | |
| Pressure transmitters | | Rosemount 3051S | 902690 | | | |
| Differencial pressure and level transmitters | | Rosemount 3051S | 902690 | | | |
| Deadweight tester | | | 902680 | | | |
| Pressure Calibrators | Druck DPI 610/615 | Fluke 718 | 902620 | | | |
| Hydraulic hand pump | and the same of th | Sanda Market | 841381 | | | |
| 24 volt DC power supply | | | 850440 | | | |

| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4, Remark | Column 5. Tariff Code |
|--|-----------------------|-----------------------|--------------------------------|--------------------------|
| 15.2 Level Training Station. | | | | 9023 |
| Small bore instrument tubing | | | | 830710 |
| (Swagelok -Imperial). | | | | |
| Junction boxes, cabling, glanding, | | | | 853810, |
| cable trays, unistrut etc. | | | | 854420 |
| Level switches | | | | 853650 |
| Leveltrols | | | | 902610 |
| Radar level transmitter | | | | 852610 |
| 15.3 Temprature Training Station. | | | | |
| Small bore instrument tubing | | | | 830710 |
| (Swagelok -Imperial). | | | | |
| Junction boxes, cabling, glanding, | | | | 853810, |
| cable trays, unistrut etc. | | | | 854420 |
| Temperature bath | | | | 902590 |
| Temperature gauges | | | | 902590 |
| Temperature transmitters | | Rosemount 3144P | | 902590 |
| Thermocouples | | | | 902580 |
| Resistance Temperate Detector (RTD). | | | | 902590 |
| Thermistor | | | | 902580 |
| Thermowell | | | | 902690 |
| Resistor box | | | | 853810 |
| 24 volt DC power supply | | | | 850440 |
| mA source for thermocouple | | | | 902580 |
| 15.4 Flow Training Station. | | | | |
| Vessel (Water) | | | | 39249090. |
| 60 W 100 P | | | | 732393 |
| Small bore instrument tubing | | | | 830710 |
| (Swagelok -Imperial). | | | | 0.52010 |
| Junction boxes, cabling, glanding, cable | | | | 853810, |
| trays, unistrut etc. | | | | 854420 |
| Recirculation pump (closed loop system) | | | | 841350 |
| with variable speed drive. Flow transmitters | | | | 002610 |
| Magnetic Flow Meter | | | | 902610 902610 |
| Differencial pressure flow devices | | 30518 | | 85432000 |
| Ultrasonic Flowmeter | | 30313 | | 902610 |
| Positive Displacement Meter | | | | 902620 |
| 24 volt DC power supply | | | | 850440 |
| 15.5 Valve Training Station. | | | | 030110 |
| Various cut-away control valves-Pressure | | | | 848140 |
| flow, v-ball, plug & stem, butterfly, plug | & | | | F.123.32 |
| cage. | | | | |
| Valve Positioner | | | | 848190 |
| Solenoid Valves | | | | 848180 |
| Shutdown/Blowdown valves | | | | 848180 |
| Motorised Operated Valves (MOV's). | | | | 848180 |
| Self-acting control valves | | | | 848180 |
| Pressure Safety Valves (PSV's) | | | | 848140 |
| Test equipment for valve leakage | | | | 848190 |
| 1/P Convertor (Current - Pressure). | | | | 902690 |
| Pressure regulators | | | | 902690 |
| 15.6 Air Compressor Training | | | | |
| Station. | | | | |
| Air Compressor | | e.g 5.5 HP | (located external of Training | 841440 |
| | | | Workshop) | |
| Instrumentation Air Ringmain | | | routed around trainee workshop | 841490 |

| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
|---|-----------------------|------------------------|---|--------------------------|
| Associated flow pipework, joints, valves | | | | 730429 |
| etc. | | | | ALWAY. |
| Cable trays, unistrut etc | | | | 854420 |
| Pressure Regulators - for Instrument Air. | | | | 902690 |
| 20 psi & 40 psi | | | | |
| 15.7 Gas Detector Training Station. | | | | 205515 |
| Flame Detectors | | 0.1 0.11111 | | 902710 |
| H2S Detectors | | (Hydrogen Sulphide) | | 28041000 |
| Heat Detectors | | | | 902780 |
| Gas Detectors - | | Beam, Point & Infrared | | 902710 |
| Combustible Gas Detector (Methane) - | | | | 902710 |
| Point watch and Path watch | | | | 000710 |
| Smoke Detectors | | | | 902710 |
| Portable Gas Detectors - Crowcon | | | | 902710 |
| Calibration gases - 2.5% LEL - Methane, | | | | 90281000 |
| H2S, CO2 etc. Flame Detector test torch | | | | 002710 |
| Smoke detector tester (aerosol) | | | | 902710 902710 |
| 24 volt DC power supply | | | | 850440 |
| 15.8 Instrumentation Test Bench. | | | | 830440 |
| 24 VDC Indicator: Indicates 24 VDC | | | | 902890 |
| power to panel instruments, supplied by a | | | | 902890 |
| power to paner instruments, supplied by a power supply. | | | | |
| Loop Powered Meter: Used in conjunction | | | Caution do apply voltage | 902830 |
| with an external power source, wired in | | | source directly into meter. Used | |
| series with load when testing Instrument. | | | in calibrating transmitters. Displays 420mA or O100% | |
| 24 VDC Supply: Two banana jacks | 75 Amp | | Displays (2011) of 070070 | 902890 |
| labelled 24 VDC supply, supplied by a | Ces No. | | | 1.5561.6 |
| power supply. | | | | |
| 4-20 ma input/3-15 psig output: | | | | 902890 |
| Banana jacks are connected to 1/P current to pressure transducer. | | | | |
| External 420 ma source connected to | | | | 94911000 |
| output banana jacks will output a 3-15 | | | | 84811000 |
| psig (valve testing transducers etc.) | | | | |
| 24 VDC Solenoid Test: 24 VDC powered | | | | 902890 |
| from a power supply to banana jacks on | | | | 202820 |
| panel. | | | | |
| Connect solenoid extension wiring to | | | | 84814000 |
| banana jack input, select either a | | | | |
| momentary switch closure or close rocker | | | | |
| switch for continuous operation. | | | | |
| Continuity Test: 24 VDC powered from a . | | | | 902890 |
| power supply to banana jacks on panel. | | | | |
| Connect device to be tested to banana jack input | | | | |
| Light will instantly illuminate if conducting | g. | | | 94054000 |
| also rocker switch will enable a buzzer to | D1 | | | 34034000 |
| sound if so desired. | | | | Name and a |
| Used to test on continuity on pressure | | | | 85365000 |
| switches, solenoids, etc. | | | | 000000 |
| Three Digital Pressure Gauges, ranged | | | | 902620 |
| from 15 to 30 psi, 0300 psi and 03000 | | | | |
| psi. Regulators are used in conjunction | | | | |
| with the digital gauges. | | | | |

${\bf Exemption\ From\ Import\ Duty-} {\it continued}$

| | 2 | cnedule—continuea | | |
|--|-----------------------|-----------------------|---------------------|--------------------------|
| Column I. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
| Each gauge system is equipped with 2 input/output ports except the low range | | | | 90268000 |
| (15 to 30 psi) gauge which has 1 port. Each gauge system is equipped w pressur (15 to 30 psi) gauge system is equipped with a valve which is selected to either | е | | | 90268000 |
| vacuum or pressure usage. Used to check transmitters, switches, | | | | 90261000 |
| gauges, etc. Malfunction Process calibrator is used as volt, current, resistance, temperature (T/C/RTD), frequency measurement, | | | | 902890 |
| inputs and outputs. Used to check temperature transmitters, T/C or RTD, controllers, Frequency meters/transmitters, current to voltage | | | | 90261000 |
| transducers, etc. 20 psi supply port for external usage, transmitters, etc. (optional) two pneumatic ports with adjustable regulator | | | | 902890 |
| A 250 ohm precision load resistor, accessed from banana jacks used (in conjunction with a transmitter as a load resistor when calibrating. | | | | 852329 |
| Supply tubing & fitting (standards) is 1/4 copper/brass. Optional all 316 SS tubing and fittings. | L | | | 830710 |
| Console Light (optional). All electrical power and gas supply connections enter from top (optional side mount). | | | | 940540 853670 |
| Pneumatic cleaning nozzle/hose (standard) Five drawer metal cabinet (standard). |). | | | 85043200 853810 |
| Test bench can be either a floor mount or castor mount. | | | | 903120 |
| Vacuum pump optional-can be mounted externally or internally utilizing a large one drawer cabinet. | | | | 841410 |
| Fluke 744 calibrator optional Vice-optional | | | | 903032 820570 |
| Customer to specify type gas supply and pressure. | | | | 8481100 |
| 16. Large Laboratory training equipment. | | | | |
| Automatic Density Meter + accessories (Anton Paar equivalent) | | | | 902300 85042100 |
| Karl Fischer Colourmetric Titrator + accessories. | | | | 52051400 |
| Heated Centrifuge for water and sediment analysis + accessories. | | | | 84144000 |
| Temperature bath Sediment in Crude and Fuel Oil by | | | | 84191100 |
| extraction. | | | | 38241000 |
| Analytical Balance | | | | 84239000 |

| Column 1, Category | Column 2. Quantity | Column 3, Material | Column 4. Remark | Column 5. Tariff Code |
|--|-----------------------|-----------------------|---------------------|--------------------------|
| Salt in Crude Oil analyser | | | | 90275000 |
| Laboratory Mixer + accessories | | | | 28469000 |
| (Doedijns RMS 20). | | | | |
| Fume Cubboard (120 x 75 x 210) + | | | | 94035000 |
| accessories. | | | | |
| 17. Electrical Training Stations & Training Equipment. | | | | |
| 17.1 Lighting training station. | | | | 85012000 |
| Flood lighting (e.g. Chalmet) | | | | 940540 |
| Street lighting (e.g. Petrel or Lucy | | | | 940540 |
| Luminary/Fluorescent lighting-both | | | | 940540 |
| emergency & normal e.g. | | | | |
| Exit light signs - escape/ safely | | | | 940560 |
| Junction boxes, cabling glanding, cable | | | | 853810, |
| support work (tray, ladders, unistrut). | | | | 854420 |
| Switches, Isolators, Plugs & Sockets | | | | 853650, |
| | | | | 853530, |
| | | | | 853669 |
| 3 phase distribution board with circuit breakers/mini circuit breakers (MCB's). | | | | 853810 |
| Residual Circuit Device (RCD), key safe with lock out/tag out, padlocks. | | | | 853630 |
| Earthing (bonding main) | | | | 853650 |
| Eletrical safety matting | | | | 401699 |
| 17.2 Sockets Training Station. | | | | |
| Sockets Outlets Ex rated (110V, 240V, | | | | 853669 |
| 440V - 16A, 32A, 64A) e.g. (Ceag) Plugs Ex rated (110V, 240V, 440V, - 16A, | | | | 052660 |
| 32A, 64A) e.g. (Ceag). | | | | 853669 |
| Domestic Socket (110V, 220V with and | | | | 853669 |
| without RCD) connection in Ring Main | | | | |
| and Radial. | | | | |
| Plugs (110V, 220V - 16A, 32A) | | | | 853669 |
| Junction Boxes, Cabling Glanding, Cable | | | | 853810, |
| support work (Cable tray, ladder, unistrut et | c.) | | | 854420 |
| Switches, Isolators, Plug & Sockets. | | | | 853650, |
| | 7 | | | 853530, |
| 3 Phase Distribution Board with Circuit | | | | 853669 853810, |
| Breakers: MCB's (miniature circuit breaker | | | | 853620 |
| RCD's (Residual circuit device), Key safe | | | | 853020 |
| with Tags, Lockout and Pad-Locks. | | | | |
| Transformer (small power step down 220V | | | | 850433 |
| ac - 110V ac) | | | | |
| Earthing (bonding, main) | | | | 853650 |
| 17.3 Electrical Heater Training Equipment. | | | | |
| Heater Control Panel (3 Phase, 1 | | | | 851610 |
| Element) with all protection relays. | | | | |
| Example could be found in the attached | | | | |
| link below. Also Key safe with Tags, | | | | |
| Lockout and Pad-Locks. | | | | |
| Heaters (Space), Thermostat, Safety cut | | | | 851610, |
| out, etc. | | | | 903210 |

| | | schedule—continuea | | |
|--|-----------------------|-----------------------|---------------------|--------------------------|
| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
| Switches, Isolators, Junction Boxes | , Plug . | | | 853650, |
| and Sockets, Cabling, Glanding, Ca | | | | 853810, |
| support work (Cable Tray, ladder, U | | | | 853669 |
| etc.) | | | | 465,045 |
| Switches, Isolators, Plug, Sockets | | | | 853650, |
| annine, ibalawa, i lag, bollet | | | | 853520, |
| | | | | 853669 |
| Earthing (bonding, main) | | | | 853650 |
| Electrical Safety Matting with volta | re. | | | 401699 |
| rating equal or more than 1000 Vac | | | | 401055 |
| 17.4 AC & DC UPS (Uninterrupt | | | | |
| Power Systems) Training Station. | | | | 847330 |
| AC and DC UPS (Rectifier, Conver | | | | 85014000 |
| Invertors, Static Switch, and other | tors, | | | 83014000 |
| components) e.g. Gutor. | | | | |
| AC and DC Distribution Panel | | | | 85043200 |
| Battery Systems (Maintenance free | land | | | 850720 |
| Acid gel, valve regulated. | icau | | | 630720 |
| Test Equipment (Cell order, Battery | | | | 850790 |
| Discharger, Top up device, Etc.). | | | | 830790 |
| Junction Boxes, Cabling, Glanding, | Cabla | | | 052010 |
| support work (Cable Tray, ladder, U | | | | 853810, 854420 |
| Electrical Safety Matting with volta | ge | | | 401699 |
| rating equal or more than 1000 Vac. | | | | 101055 |
| Key safe with Tags, Lockout and Pa | | | | 830170, |
| | | | | 830140 |
| 17.5 Batteries Training Station. | | | | 2022200 |
| Battery Distribution Panel with Circ | | | | 853810, |
| Breaker e.g. RCD (Residual circuit | | | | 830170, |
| Also Key safe with Tags, Lockout a | | | | 830140 |
| Battery Systems (Lead Acid Dry an | | | | 850720, |
| Nickel, Cadmium, Nickel -Iron Alka | | | | 850730, |
| with different connections (e.g. in p | arallel | | | 850740 |
| and in series). | | | | 414111 |
| Test Equiptment (Hydrometer, Cello | 1002 | | | 902580, |
| Discharger, Charger, Top up device, | etc.). | | | 903039, |
| | | | | 850790 |
| lunction Boxes, Cabling, Glanding, | Cable | | | 853810, |
| support work (Cable Tray, Unistrut | , etc.) | | | 854420 |
| Electrical Safety Matting with volta | ge | | | 401699 |
| rating equal or more than 1000 Vac | | | | |
| 17.6 Earthing Display Training Station. | | | | |
| NER (Neutral Earth Resistance) - si | mulation. | | | 853329 |
| Bonding | | | | 853670 |
| Clean/Instrument Earth. | | | | 854451 |
| S Earth | | | | 854451 |
| Power/Potential/Dirty earth. | | | | 85043400 |
| Earth pit, rod, bus-bars, connections | | | | 853810, |
| | | | | 721590, |
| | | | | 740710, |
| | | | | 853670 |
| Surge & Lightning protection system | ns. | | | 940540 |
| The state of the s | | | | 2.02.0 |

| Schedule—continued | | | | | |
|--|-----------------------|-----------------------|---------------------|--------------------------|--|
| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code | |
| Junction Boxes, Cabling, Glanding, C | Cable | | | 853810. | |
| support work (Cable Tray, ladder, Unistrut, etc.). | | | | 854420 | |
| Zig Zag Transformer - simulation onl | y. | | | 902300 | |
| Motor Vessel, Junction Box, Distribu | 5 | | | 841280, | |
| Board, Earth Greed - simulation. | | | | 853810, | |
| | | | | 853810, | |
| | | | | 902300 | |
| Earth Real | | | | 721590 | |
| Pressure Transmitter | | | | 902690 | |
| Electrical Safety Matting with voltage | е | | | 401699 | |
| rating equal or more than 1000 Vac. | | | | | |
| 17.7 Fuses Display/Training Station. | 2 | | | 555616 | |
| Fuses (HRC - High Rupture Capacity Spot), etc. | , Red | | | 853610 | |
| Fuses of different sizes 2, 6, 10, 20, 2 32, 64 Amps, etc | 25, | | | 853610 | |
| Junction Boxes, Cabling, Glanding, C | able | | | 853810, | |
| support work (Cable Tray, ladder, | Sault | | | 854420 | |
| Unistrut, etc.). | | | | 05 1120 | |
| Switches, Isolators, Plug & Sockets, | | | | 853650, | |
| Distribution Board with Circuit Break | cers | | | 853530, | |
| e.g. MCB's (miniature circuit breaker | | | | 853669, | |
| RCD's (Residual circuit device) Key | safe | | | 853810, | |
| with Tags, Lockout and Pad-Locks. | | | | 853620, | |
| | | | | 830170, | |
| Transformer (small power step down | | | | 830140 850433 | |
| 220V - 24V). | | | | 052450 | |
| Earthing (bonding main) Small LEDS (Lighting Emitting Dioc | de | | | 853650 940540 | |
| with sockets, Fuse holder lock out | uc) | | | 940340 | |
| different sizes. | | | | | |
| Drawing as per Installation, Electrical | i i | | | 490600 | |
| Safety Matting with voltage rating ed | qual . | | | | |
| or more than 1000 Vac. | | | | | |
| Fuse display with different type of fus | | | | 902300 | |
| on it equipped hand-out containing a necessary information about fuses. | 11 | | | | |
| 17.8 Motor Control LV (Low | | | | | |
| Voltage) Training Station. | | | | | |
| Distribution Board e.g. (Iteco, ABB, I | Etc) | | | 853810 | |
| with cubicles: DOL (Direct on line) | and | | | | |
| Reverse are mandatory. | | | | | |
| Star - Delta, Soft Start, VSD - (Variab | | | | 85323000 | |
| Speed Drives)/VFD (Variable Freque | ncy | | | | |
| Drives) is future project/preferable. | | | | | |
| Distribution Board: Standalone, | | | | 853810 | |
| Transparent for motor connection D.0 | | | | | |
| without load (Shaft of motor not com | nected | | | | |
| off load. | | | | | |
| Cut away examples of AC/DC motors | | | | 841280 | |
| (Non Ex rated and Ex rated). | | | | | |

| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5, Tariff Code |
|---|-----------------------|-----------------------|---------------------|--------------------------|
| Components: Fuse, Overload, Contractor | S, | | | 853610, |
| Protection Relays, Switches and Isolator | rs, | | | 850490, |
| Circuit Breaker, Voltage and Current | | | | 853650, |
| Transformers, etc. | | | | 853649, |
| | | | | 853650, |
| | | | | 853530, |
| | | | | 853620, |
| | | | | 850433 |
| Remote Operation | | | | 85269200 |
| Junction Boxes, Cabling, Glanding, Cabl | | | | 853810, |
| support work (Cable Tray, ladder, Unistreetc.). | ut, | | | 854420 |
| Switches, Isolators, Plug and Sockets | | | | 853650, |
| | | | | 853530, |
| | | | | 853669 |
| Transformer (small power step down 220V - 24V). | | | | 850433 |
| Earthing (bonding main) | | | | 853650 |
| Electrical Safety Matting with voltage rating equal or more than 1000 Vac. | | | | 401699 |
| Key safe with Tags, Lockout and Pad-Lo | cks. | | | 830170, |
| 17.9 Tranformers & components | | | | 830140 |
| Training Station. | | | | 830170 |
| Cutaway Transformer | | | | 830170 |
| Transformers Power-Dry Air Force | | | | 830170 |
| Transformers Power Oil insulated- Transformers. | | | | 830170 |
| Tap Changer On and Off line | | | | 830170 |
| Auto Transformer | | | | 830170 |
| Junction Boxes, Cabling, Glanding, | | | | 853810, |
| Cable support work (Cable Tray, ladder, Unistrut, etc.). | | | | 854420 |
| Switches, Isolators, Plug and Sockets, | | | | 952/50 |
| Extension lead weatherproof 110V and | | | | 853650, |
| 220V quipped with RCD. | | | | 853669, |
| Transformer (small power step down | | | | 853669 850433 |
| 220V - 24V). | | | | 020423 |
| Earthing (bonding, main). | | | | 853650 |
| Electrical Safety Matting with voltage | | | | 401699 |
| rating equal or more than 1000 Vac. | | | | 401077 |
| 17.10 Bus Layout & Components | | | | |
| Training Station. | | | | |
| Cubical Frame work | | | | 39221000 |
| Bus-Bars | | | | 7404000 |
| Cable Termination Truck Stabs | | | | 853650 |
| | | | | 7400000 |
| Junction Boxes, Cabling, Glanding, Cable support work (Cable Tray, ladder, | 3 | | | 853810, |
| Unistrut, etc.). | | | | 854420 |
| Simulation Motor, Earthing (bonding, ma | in) | | | 044000 |
| 그리다 시 나타시아를 하는데 하는데 하는데 이글이다 보셨다고 주제하다. | ш). | | | 841280 |
| Electrical Safety Matting with voltage | | | | 401699 |
| rating equal or more than 1000 Vac. | | | | 181 585 |
| 17.11 Motor Control HV (High Voltage) & components | | | | 401699 |
| romage, or components | | | | |

Schedule-continued

| Column 1. Category | Column 2. Quantity | Column 3. Material | Column 4. Remark | Column 5. Tariff Code |
|--|-----------------------|-----------------------|---------------------|--------------------------|
| Switchboard with cubicles | | - | | 902300 |
| Two Incomer Breakers/Cubicles. | | | | 853620 |
| One Tie Breaker | | | | 853620 |
| Two Diesel Generators being connected to | | | | 851150 |
| the each side of Switchboard, whi | ch can | | | |
| be run in parallel if needed be. | | | | |
| Two Feeders Star - Delta, VSD - | | | | 851150 |
| (Variable Speed Drives)/ FD (Vari | able | | | |
| Frequency Drives). | | | | |
| Two Motors as a load | | | | 841280 |
| Remote Operation | | | | 841280 |
| Breaker Track | | | | 841280 |
| Components: Fuse, Overload, Contractors, | | | | 853610, |
| (Variable Speed Drives)/ FD (Variable | | | | 850490, |
| Frequency Drives). | | | | 853649, |
| Cabling, Glanding, Cable support work. | | | | 854420 |
| Transformer (small power step dov simulation of High Voltage. | vn) for | | | 854420 |
| Earthing (bonding, main) | | | | 853650 |
| Drawing as per Installation, Electrical | | | | 490600 |
| Safety Matting with voltage rating or more than 30000 Vac. | g equal | | | |
| HV Breaker, e.g. | | | | 490600 |
| Indoor Switchgear Type AH12. | | | | 853669 |
| Incomer/Outgoing with VCB (Vacuum | | | | 853669 |
| Circuit Breaker) and SF6 (preferal | bly). | | | |
| Rated Voltage - 12 kV. | | | | 853669 |

Dated this Wednesday, 3rd day of May, 2017.

BOB DADAE, Governor-General.

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