

## REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

**RFQ NUMBER** : 2492300485  
**DATE** : 19.09.2023  
**REQ No** : 1172300475  
**REQ TITLE** : Supply, installation and comm  
**DELIVERY LOCATION**  
**CLOSING DATE** : 27.09.2023  
**CLOSING TIME** : 10:00:00

| SL NO | ITEM CODE  | SERVICE ID | DESCRIPTION  | QTY | UOM | BRAND/ORIGIN | WARRANTY | UNIT PRICE | TOTAL PRICE |
|-------|------------|------------|--|-----|-----|--------------|----------|------------|-------------|
| 1     | 7000000049 |            | SUPPLY, INSTALLATION AND COMMISSIONING OF<br>DEDR 200/45 HYDROGEN DEOXO AND DRYER<br>CONTACT PERSON: ENGR. MOHAMMED MINHAS<br>CONTACT NUMBER:<br>0555691852 SPECIFICATION: NAME: DEDR 200/45 -<br>1MW H2 MAKER: AQUAGAS SWEDEN AB 1. INLET<br>MEDIA - HYDROGEN - FLOW RATE - 200 NM3/H<br>- FLOW RANGE - 20-110% - WORKING PRESSURE -<br>30-40 BAR (G) - MEDIA TEMPERATURE - 5-40 DEG C<br>- INLET O2 CONTENT <100PPM(V) - INLE<br>T H2O CONTENT - SATURATED @ INLET TEMP -<br>INLTE OIL CONTENT - <0.01 MG/NM3 - INLET<br>POTASSIUM HYDROXIDE CONTENT 2. OUTLET -<br>PRESSU<br>RE DROP - <0.3 BAR - MEDIA TEMPERATURE - <40<br>DEG C - OUTLET O2 CONTENT - <5PPM(V) -<br>OUTLET H2O CONTENT -<5 PPM(V) - PURIFICATION<br>LEVEL - GRADE 5.0 (99.999% H2) 3. DESIGN -<br>DESIGN PRESSURE - 45 BAR(G) - DESIGN<br>TEMPERATURE - 220°C - AMBIENT TEMPERATURE -<br>1-40<br>°C - SOUND PRESSURE LEVEL @ 1M DISTANCE -<br><82 DB(A) - DIMENSIONS LXWXH - 185X60X225 CM | 1   | EA  |              |          |            |             |

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|       |           |            | 4. ELECTRICAL - DEOXO HEATER - 2 KW 230V 1<br>PH 50HZ - DRYER HEATER - 4,5 KW 230V 1PH 50HZ<br>- INSTRUMENTS - 24 VDC 5. PILOT AIR<br>REQUIREMENTS - PILOT AIR PRESSURE - 5-8<br>BAR(G)<br>- PILOT AIR CONSUMPTION - 5 LPM AVERAGE, 10<br>LPM PEAK - PILOT AIR QUALITY - DEW POINT<br><-20°C 6. C.W REQUIREMENTS - COOLING WATER<br>PR<br>ESSURE - 1-10 BAR(G) - COOLING WATER<br>CONSUMPTION - 0,9 M3/H @ #T=10°C - COOLING<br>WATER INLET TEMPERATURE - 1-20°C 7.<br>INTERCONNECTIO<br>N - GAS INLET/OUTLET CONNECTION - 18MM<br>DOUBLE FERRULE TUBE CONNECTOR (316L) -<br>COOLING WATER INLET/OUTLET CONNECTION -<br>18MM SINGLE<br>FERRULE TUBE CONNECTOR (FZV) - PILOT AIR<br>CONNECTION - Ø6MM TUBE/HOSE CONNECTOR -<br>CONDENSATE DRAIN OUTLET - 8MM DOUBLE<br>FERRULE TUB<br>E CONNECTOR (316L) - VENT LINE OUTLET - 18MM<br>DOUBLE FERRULE TUBE CONNECTOR (316L) 8. |     |     |              |          |            |             |

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|       |           |            | LIFETIME - CORROSION ALLOWANCE - 1MM (NON STA<br>INLESS STEEL) - DESIGN LIFETIME - 25 YEARS OR<br>10.000 PRESSURE CYCLES @ #P 40 BAR -<br>INSPECTIONS - ACCORDING TO LOCAL RULES FOR PRE<br>SSURIZED EQUIPMENT 9. MATERIALS - DEOXO<br>VESSEL - CARBON STEEL, P265GH - DRYER<br>VESSEL - CARBON STEEL, P265GH - PIPING (#<br>DN25)<br>- CARBON STEEL, P235GH - TUBING (<DN25 -<br>300-CLASS STAINLESS STEEL - FLANGES -<br>300-CLASS STAINLESS STEEL / CARBON STEEL,<br>P250GH<br>- VALVES - 300-CLASS STAINLESS STEEL -<br>CONDENSATE SYSTEM - 300-CLASS STAINLESS<br>STEEL - HEAT EXCHANGER - 300-CLASS<br>STAINLESS STEEL<br>- DEOXO HEATER - 300-CLASS STAINLESS STEEL<br>- DRYER HEATER - 300-CLASS STAINLESS STEEL -<br>SKID/FRAME - CARBON STEEL - PILOT AI<br>R - PUR ELASTOLLAN 1198 A - JUNCTION BOXES -<br>POLYESTER RESIN, GLASS FIBRE REINFORCED 10. |     |     |              |          |            |             |

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|       |           |            | SURFACE TREATMENT - STANDARD PAINT SYSTEM - C2-M ISO 12944-2 - PRE-TREATMENT - SANDBLASTED TO SA 2.5 - PRIMER - TEMADUR PRIMER, 40#M - TOPCOAT - TEMADUR 50, 60#M, GREY (RAL 7011) 11. CABLES ANALOG SIGNALS SHIELDED, MINIMUM 0,50 MM2 WIRE SIZE DIGITAL SIGNALS MINIMUM 0,34 MM2 WIRE SIZE BLUE FOR EXI (BLUE OUTER SHEATH OR CLEARLY MARKED WITH 0,25 M BLUE SHRINK HOSE IN BOTH ENDS). COLOUR CODED WITH BLACK ON WHITE, NUMBERED.<br>END FERRULES AT TERMINATIONS. 12. INGRESS PROTECTION RATING IP CLASSIFICATION IP65 13. COOLING WATER COOLING WATER REQUIREMENTS ARE BASED ON WATER/GLYCOL MIXTURE (60% WATER, 40% ETHYLENE GLYCOL) 14. INSULATION SURFACES EXPOSED TO >100°C ARE INSULATED WITH 50 MM MINERAL WOOL WITH ALUMINIUM SHIELD. 15. INSTALLATION THE UNIT TO BE INSTALLED INDOOR OR OUTDOOR WITH RAIN AND WIND PROTECTION. HE UN |     |     |              |          |            |             |

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|       |           |            | IT DON'T CREATE ANY MOVEMENTS. THE UNIT TO BE BOLTED WITH MINIMUM 4 X M12 BOLTS AGAINST A STABLE METAL SURFACE OR ON A CONCRETE BASE<br>WITH 4 X M12X160 MM EXPANDER SCREWS.<br>SEISMIC CONDITIONS ARE NOT CONSIDERED FOR THE DESIGN OR ABOVE INSTALLATION RECOMMENDATION. 16<br>. WORKING PRESSURE THE UNIT IS DESIGNED FOR MAX DESIGNED FLOW @ 30-40 BAR(G) WORKING PRESSURE, THE WORKING PRESSURE CAN BE REDUCED T<br>O 8 BAR(G) IF THE INLET GAS FLOW IS REDUCED ACCORDING TO THE FLOW CHART BELOW. THIS IS APPLICABLE DURING START OF A DEPRESSURIZED UN<br>IT. |     |     |              |          |            |             |

TOTAL AMOUNT IN WORDS:

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**SPECIAL NOTES / INSTRUCTIONS:**

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Supply, installation and commissioning of DEDR 200/45 hydrogen Deoxo and Dryer

Contact Person: Katherine Tesara Yongco / katherine.yongco@dewa.gov.ae / 04-3222970

### **STANDARD TERMS & CONDITIONS**

- 1) Prices should be 'DDP' delivery duty paid at DEWA stores.
- 2) Quotation to be submitted only in local currency U.A.E Dirhams
- 3) DEWA Standard payment terms is '30 days credit' from the date of acceptance of material
- 4) No DEWA staff or his or her relatives up to third degree should have ownership or partnership in your company, and your participation in DEWA tenders / RFQs should not constitute a Conflict or perceived Conflict of Interest.
- 5) The offered product and/ or services in the Quotation, shall be conforming and in accordance with DEWA Energy Management Policy & EnMS Manual.

**SUPPLIER'S REMARKS :**

**SUPPLIER'S SIGNATURE AND STAMP**