Org.unit Officer responsible for the commission

Project Title
Materials and
Equipment for Cooling
Program for Southern
Africa (CooPSA)

Date PN

20.9091.8-008.00

Assessor Version Name Individual assessment/overall

Contract no. 91183685

Version	Individual assessment/overall assessment										
		T		1=	T						1
Item Number	Description		Quantity	Comply fully-type in YES/NO_5 points per item	Photograph of each tool/ equipment sent with quotation-YES/NO	within five	Company 1	Company 2	Company 3	Company 4	Company 5
				to show completeness (14x6=84 points)	(14 points) to show if the materials and equipment is functionally and technically	working days (2 point)					
				(**************************************	correct.	,					
1	Portable air blower										
	Technical data:	S Edward									
	- Airflow rate about 700 m3/h										
	- Maximum power consumption 50 watts		12								
	Maximum sound level 70 dB (A) ATEX approval										
	- hard wired mains lead minimum length 5										
	M Power ownsky 220V/4 Ph/50Hz										
	- Power supply 220V/1Ph/50Hz - Weight of about 6.5 kg										
	- Ambient temperature about -20°C to										
	55°C - Operation manual in English and French										
	language										
2	- CE certification										
_	Combustible gas detector										
	Technical data: - Sensitivity to all CFC's, HCFC's, HFC's		12								
	and HC's										
	- Weight about 0,68 kg										
	- Battery powered - Tin oxide sensor, flexible, approx. 41 cm										
	long										
	- Operational manual in English										
	- Sensitive to most common Hydrocarbon	1									
	based refrigerants.										
	- Unit shall consist of the combustible gas detector, batteries and a hard plastic										
	carrying case.										
	Madahla andhla alamala andhala										
	- Variable audible signal as well as multiple LEDs to indicate leaks										
	Automatic adjustment (zeroing) to combustible gas in leak test area for										
	greater stability.										
3	Vacuum pump equipped with gas										
	ballast valve and exhaust port with oil- filter connection and vent-line										
	connection										
	Technical data: - Ultimate vacuum 15 microns										
	- 2 Stage vacuum pump		12								
	- Power supply 220-240V / 1Ph/50-60Hz										
	- Dual voltage capability										
	- Easily removable vapor discharge / oil fill										
	port contains internal check valve to prevent escape of liquid oil										
			-								
	- Hard wired mains lead (Shuko)										
	- Power consumption about 375 W (1/2 HP)										
	- Oil charge about 450 ml]									
	- Weight about 11 kg										
	- 3 Port inlets 3/8" and 1/4" SAE; 1/2" ACME										
	- Operational manual in English										
_	- CE certification										
4	Digital vacuum gaves (***									
	Digital vacuum gauge (micron gauge) VG64 – LX with LCD display and two 1/4"										
	SAE refrigerant hose connections										
	Technical data:										
	-Displayed units Microns, Pascal, millibar,	(-I-I)									
	Torr, millitor		-								
	-Vacuum range 0 – 19 000 microns	im +- 10% (50-2000 ion 0,5 Micron (0-140	12								
	-Accuracy vacuum +- 10% (50-2000 Microns)										
	-Vacuum resolution 0,5 Micron (0-140										
	microns) -Maximum overpressure 800 PSI										
	-Power supply 3 AA Alkaline Batteries	_									
	-Operating temperature - 17°C - 65°C										
	-Connection ¼" SAE M										
	-Operational manual in English										

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5	Four (4) ways piston manifold gauge set									
	Technical data:	Section .								
	-Body with sight-glass, hanging hook and supplied with sturdy carrying case		12							
	-Refrigerants R600a, R290, R1270									
	-Pressure gauges (high and low pressure) pulse free, diameter 80mm, class 1 and with regulation screw									
	-Connections 3x 1/4" SAE/UNF and 1x 3/8" SAE/UNF									
6	Electronic refrigerant charging scales									
	Technical data:									
	-Including level sight glass, zeroing function and including sturdy carrying case									
	-Capacity about 50 kg -Resolution 2 gram									
	-Accuracy +- 0,05% of reading		12							
	-Scale platform dimension about 240 x 240 mm									
	-Display selectable in kg, lb, lb-oz									
	-Battery powered 1x9V alkaline battery									
	-Weight comply. About 5 kg									
	-Operational manual in English language									
7	-CE certification									
′	Brass piston Technical data:									
	-Delivery pressure at a minimum of 0- 60/40 bar									
	-For cylinder connection G 5/8"M (BS 341 nr.3) inlet male connection									
	-With shut-off ball valve at outlet									
	-1/4" male flare SAE/UNF outlet connection		9							
	-Designed diaphragm Nitrogen (N2) pressure regulator for purging and pressure testing air conditioning and refrigeration systems (PS x 1,1)									
	-Regulator with self re-seating relief valve and easy to read pressure gauges									
	-Adjustment knob or large brass T handles for smooth accurate delivery pressure adjustment									
8	Adjustable piercing plier for copper									
	Technical data:									
	-Tool with build with locking function for tight fit adjustment	e needle and	18							
	-Tool design for replaceable needle and gasket									
	-For tubes from 3/16" (4.76mm) up to 7/8" (22mm)									
9	Replacement set for locking piercing plier including spare needle and gasket									
			12							

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10	Tube expander set complete consisting of 9 pieces									
	Technical data:									
	-Including expander-plier tool, carrying case and 7 heads for ½" to 1.1/8" copper tubes									
	-Carrying case dimensions about 420x200x50, weight about 2,2 kg									
	-Tube expander tool dimension about 400x110x80mm, weight about 1,5 kg									
	-Expander head ½" -Expander head 3/8"	+	12		1	1				
	-Expander head 5/8"									
	-Expander head 3/4"									
	-Expander head 7/8" -Expander head 1"	1				-				
	-Expander head 1 -Expander head 1,1/8"	1			1					
11	Set of torque wrenches for open end spanner attachments									
	Technical data:	HART MACE AND								
	-Forged chrome vanadium steel, slip- resistant handle									
	-Tool set in tough nylon weave carry case		12							
	-For working range of 14 to 77 Nm torque force									
	-Torque valve adjustment with space of 1 Nm									
	-Six open end spanner heads with sizes of 17, 22, 24, 26, 27,29									
	-Dimension of weave carry case 300 x 130 x 40mm -Weight 1.75kg									
	-Operational manual in English	1								
40										
12	Capillary tube cutter Technical data:									
	-Dimensions 150 x 70 x 20mm	1	6							
	-Weight 0.08 kg					1				
	-To cut all sizes of capillary tubes without collapsing or narrowing the tube									
13	Two (2) ways piston manifold gauge set with stainless steel body. Set complete with three (3) refrigerant hoses	7_								
	Technical data:									
	-Refrigerant CO ₂ / R744	Mambile and hose designed appetitudely for transcritical CDy (8-744) applications				-				
	-Pressure gauges class 1, 80mm diameter, pulse free, oil filled and with regulation screw									
	-Connections for hoses 3 x 1/4" SAE/UNF		6			1				
	-Pressure range -1 + 100 bar / 0 + 160 bar									
	-Complete set with three PTFE hoses, inox covered									
	-Working pressure max. 200 bar, bursting pressure 800 bar, length 200cm									
	-All components CE certified									
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14	Gas detector (Leak finding instrument), sensitive to CO ₂ R744 refrigerant; sensitivity less than 50 ppm; visual and audible leak detection signal; simple one-button operation; two sensitivity modes; low battery indicator; CE certification												
	Technical data:												
	-Dimensions Weight Batteries Battery Life Sensitivity												
	8 x 2.5 x 2.25" (20.3 cm x 6.3 cm x 5.7 cm) 15 oz. with Batteries (425 grams)												
	-4 x 1.5V 'AA' Alkaline Batteries (6 VDC) 20 Hours												
	-High: Less than 400 ppm over ambient												
	-Low: Less than 4000 ppm over ambient												
	-Operating Temperature 32° - 122° F (0 - 50° C)												
	-Warm-up Time 10 seconds		6										
	-Calibration Automatic												
	-Response Time1 second												
	-Reset Time 1 second												
	-Probe length 12" (30 cm)												
		FCT:											
				1) Functionally correct quote									
				Complete 3)Technically correct for each bid									
				response as attached									
			Ranking Evaluation Outcome: Accept/Reject										
	nereby declare that I have completed this assessment independently, to the best of my knowledge and in good faith. I will treat the information confidentially and will not pass on any details of the agoing assessment procedure.												
	Please note: Staff with connections of a personal nature that could lead to conflicts of interest, or who have connections of a family or financial nature to GIZ business partners, participants in ompetitive tenders or their staff members may not be involved in decisions on corresponding contract awards- see PuR Rule 142. By submitting the completed grid for the technical assessment of						Date, full first and last name,function,OU						