



KHULNA SHIPYARD LIMITED

BANGLADESH NAVY, KHULNA

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BABE (F) –337/2023-2024/

26 September 2023

Dear Sir

INVITATION FOR QUOTATION OF MIG WELDING TORCH WITH ACCESSORIES.

1. Khulna Shipyard Limited will procure MIG Welding Torch With Accessories **as per attached technical specification (07 Pages)** and following terms & condition:
2.
 - a) Please send your offer CFR at Chattogram Sea Port basis within 16/10/2023 (1500 Hours) by e-mail or closed envelop.
 - b) Insurance will be covered by this organization.
 - c) Payment: Payment will be made through Letter of Credit. 80% of the total contract value will be paid against shipping documents and rest 20% will be paid after satisfactory receiving of the material at KSY.
 - d) Shipment: 30 days from the opening date of Letter of Credit.

OR, Submission of quotation as local supply terms:

- a) Please send your offer as a local supply items. Offer should include supply of materials at KSY site including custom duty, local vat & tax etc.
 - b) Payment: 100% payment will be made after receiving the material at KSY and satisfactory acceptance after deducting of VAT and TAX.
 - c) Items to be delivered within 45 days from the date of Purchase Order at KSY site.
3. 1% (one) Bid Bond/Earnest Money of the total quoted value must be submit with offer. Bid Bond may be Pay Order / Bank Guarantee (any schedule bank of Bangladesh) in favour of Khulna Shipyard Limited, Khulna.
4. 5% Performance Guarantee (PG) is to be submitted before Purchase Order. This PG will release after receiving the material and satisfactory acceptance by KSY.
5. Warranty: 01 (One) Year after acceptance by KSY.
6. Warranty for Guarantee: The 5% Performance Guarantee will be considered as Warranty for Guarantee for the contracted item which shall remain valid until expiry date of the warranty period.
7. Offer Validity: 60 Days from Tender Opening Date.

Yours sincerely

SK. SHAH MOSHIUR RAHMAN
Manager Admin
For Managing Director

Specification

1. Name of the Item: MIG Welding Water-cooled Torch

SL	Description	Specification																
1.	Purpose	MIG Welding Torch which will be used in AOTAI, AMIG-500PM Pulse MIG welding machine; is required for welding different types of materials included all types of carbon steels, low-alloy steels, alloyed stainless, nickel alloys, aluminum and its alloys, copper and its alloys, titanium, magnesium, and other nonferrous alloys. Steel, stainless steel, aluminum, brass and copper of different types of plates, pipes etc. in ship building industry.																
2.	Quantity	05 (Five) complete sets.																
3.	County of Origin	China/EU/Australia/Canada/Korea/Malaysia Or Equivalent Countries.																
4.	Certificate of Standardization	To be mentioned and provided.																
5.	Name & address of Manufacturer	To be mentioned.																
6.	Brand	BINZEL																
7.	Model	MB501D																
8.	Torch Type	Swan necks 50 Degree with Ergonomic Handle, Flexible type.																
9.	Voltage Type	DC																
10.	Rating	500 Amp CO ₂ 450 Amp Mixed Gases (15-25% CO ₂ + 75-85% Ar) 100% Duty Cycle. But when pulse welding, reduce rating by 35%																
11.	Connector End	Standard with Euro-Quick direct connect rear end																
12.	Cooling method	Water-Cooled.																
13.	Length	Minimum 03 m.																
14.	Usable Wire Sizes:	0.9mm-2.0mm																
15.	Protection rating at machine side connection	IP3X or Better.																
16.	Standard Accessories.	All necessary fittings and standard accessories which are required for standard operation of MIG Welding Torch, but not mentioned in this specification are to be provided with the set at the time of delivery. The list includes, but not limited to necessary clamp hose, O-Ring, Adapter Assembly MR etc.																
17.	Spare Parts	<table><tr><th>Description</th><th>Quantity</th></tr><tr><td>i. Diffuser STD</td><td>40</td></tr><tr><td>ii. Tip Holder M8 Spray</td><td>40</td></tr><tr><td>iii. Nozzle Conical STD</td><td>40</td></tr><tr><td>iv. Contact Tip E-Cu M8(Dia-1 mm)</td><td>160</td></tr><tr><td>v. Contact Tip E-Cu M8(Dia-1.2 mm)</td><td>160</td></tr><tr><td>Adjustable Stainless Teflon Liner PA(Dia- 1.0 mm)</td><td>100</td></tr><tr><td>Adjustable Stainless Teflon Liner PA(Dia- 1.2 mm)</td><td>100</td></tr></table>	Description	Quantity	i. Diffuser STD	40	ii. Tip Holder M8 Spray	40	iii. Nozzle Conical STD	40	iv. Contact Tip E-Cu M8(Dia-1 mm)	160	v. Contact Tip E-Cu M8(Dia-1.2 mm)	160	Adjustable Stainless Teflon Liner PA(Dia- 1.0 mm)	100	Adjustable Stainless Teflon Liner PA(Dia- 1.2 mm)	100
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18.	Catalogue	One set technical catalogue in English to be provided with the offer.																
19.	Manual and documents	Operation & Maintenance Manual and technical Catalogue with part list are to be provided in English during delivery.																
20.	Test trial	Test trial will be carried out at KSY by the supplier.																
21.	Warranty	01 (One) Year from successful test and trial.																

2. Hose Pipe

Sl. no.	Item	Description
1.	Name of the Item	Rubber hose pipe.
2.	Application	Argon, Water
3.	Year of Manufacture	2022 or later.
4.	Quantity	240 Meter.
5.	Length per roll	100 Meter.
6.	Brand	To be mention
7.	Inner dia meter	8mm.
8.	Colour	To be mentioned.
9.	Outer layer	Smooth, Weather & abrasion resistant.
10.	Reinforcement	High strength multi spiral braid textile yarn.
11.	Working temperature	-10°C to 80°C
12.	Working Pressure	Minimum 20 bar
13.	Burst Pressure	Minimum 60 bar
14.	Bend Radius	Minimum 90mm
15.	Certification Standard	To be Mentioned. But ISO 3821 or Equivalent is preferable.

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3. Name of the Item: Control Cable (07 Core)

Sl.	Description	Specification
1.	Purpose	Flexible Welding cable is required for the connection of MIG welding wire feeder with its respective AC/DC Pulse MIG welding machine. It will be used in Heavy duty ship building Industry in Bangladesh. It has to be soft, flexible, heat resistant, frost resistant, oil resistant and has anti pull cord inside.
2.	Quantity (unit)	80 meter.
3.	Country of Origin	To be mentioned.
4.	Cable Produce Standard	EN 50525-2-21.
5.	Name & address of Manufacturer	To be mentioned.
6.	Brand and Model	Brand & Model to be mentioned.
7.	Cable Type	To be mentioned.
8.	Number of cores	07 (seven).
9.	Conductor	i) Cross Sectional Area: 1.0 mm ² ii) Conductor Shape: Round Flexible Copper wires, Class 5
10.	Insulation	i) Material/Color: EPR Rubber/To be mentioned ii) Nominal Thickness: 0.8 mm
11.	Outer sheath	i) Material/Color: PCP Rubber/ To be mentioned ii) Nominal Thickness: 1.8 mm
12.	Core construction	i) Copper Conductor ii) Rubber Insulation iii) Jute Filler iv) Wrapping tape v) Rubber Over sheath
13.	Voltage grade	450/750 V.
14.	Finished Cable	i) Apr. Overall Diameter of cable: 13.7 mm ii) Apr. Weight (kg/km): To be mentioned. iii) Conductor Resistance at 20°C: ≤19.50 Ω/km iv) Conductor Voltage A.C of Testing: 2.5 Kv/5min v) Flame Retardant Standard: IEC 60332-1-2 vi) Long time Operating temperature: 90°C vii) Short circuit temperature: 250°C
15.	Catalogue	One set technical catalogue in English to be provided with the offer.
16.	Test trial	Test trial will be carried out at KSY by the supplier.
17.	Warranty	03 (Three) Years from successful test and trial.
18.	Shelf Life	To be mentioned

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4. Name of the Item: Power Cable

SL	Description	Specification
1.	Purpose	Flexible Welding cable is required for the connection of MIG welding wire feeder with its respective AC/DC Pulse MIG welding machine. It will be used in Heavy duty ship building industry in Bangladesh. It has to be soft, flexible, heat resistant, frost resistant, oil resistant and has anti pull cord inside.
2.	Quantity (unit)	100 meter.
3.	Country of Origin	To be mentioned.
4.	Cable Produce Standard	EN 50525-2-21.
5.	Name & address of Manufacturer	To be mentioned.
6.	Brand and Model	Brand & Model to be mentioned.
7.	Cable Type	To be mentioned.
8.	Number of cores	07 (seven).
9.	Conductor	i) Cross Sectional Area: 60 mm ² ii) Conductor Shape: Round Flexible Copper wires, Class 5
10.	Insulation	i) Material/Color: EPR Rubber/To be mentioned ii) Nominal Thickness: 1.0 mm
11.	Outer sheath	i) Material/Color: PCP Rubber/ To be mentioned ii) Nominal Thickness: 2.5 mm
12.	Core construction	i) Copper Conductor ii) Rubber Insulation iii) Jute Filler iv) Wrapping tape v) Rubber Over sheath
13.	Voltage grade	450/750 V.
14.	Finished Cable	i) Apr. Overall Diameter of cable: To be mentioned. ii) Apr. Weight (kg/km): To be mentioned. iii) Conductor Resistance at 20°C: ≤19.50 Ω/km iv) Conductor Voltage A.C of Testing: 2.5 Kv/5min v) Flame Retardant Standard: IEC 60332-1-2 vi) Long time Operating temperature: 90°C vii) Short circuit temperature: 250°C
15.	Catalogue	One set technical catalogue in English to be provided with the offer.
16.	Test trial	Test trial will be carried out at KSY by the supplier.
17.	Warranty	03 (Three) Years from successful test and trial.
18.	Shelf Life	To be mentioned

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5. Name of the Item: Input line Cable

SL	Description	Specification
1.	Purpose	Flexible Welding cable is required for the connection of MIG welding wire feeder with its respective AC/DC Pulse MIG welding machine. It will be used in Heavy duty ship building industry in Bangladesh. It has to be soft, flexible, heat resistant, frost resistant, oil resistant and has anti pull cord inside.
2.	Quantity (unit)	80 meter.
3.	Country of Origin	To be mentioned.
4.	Cable Produce Standard	EN 50525-2-21.
5.	Name & address of Manufacturer	To be mentioned.
6.	Brand and Model	Brand & Model to be mentioned.
7.	Cable Type	To be mentioned.
8.	Number of cores	To be mentioned
9.	Conductor	i) Cross Sectional Area: 10 mm ² ii) Conductor Shape: Round Flexible Copper wires, Class 5
10.	Insulation	i) Material/Color: EPR Rubber/To be mentioned ii) Nominal Thickness: 1.0 mm
11.	Outer sheath	i) Material/Color: PCP Rubber/ To be mentioned ii) Nominal Thickness: 2.5 mm
12.	Core construction	i) Copper Conductor ii) Rubber Insulation iii) Jute Filler iv) Wrapping tape v) Rubber Over sheath
13.	Voltage grade	450/750 V.
14.	Finished Cable	i) Apr. Overall Diameter of cable: To be mentioned. ii) Apr. Weight (kg/km): To be mentioned. iii) Conductor Resistance at 20°C: <19.50 Ω/km iv) Conductor Voltage A.C of Testing: 2.5 Kv/5min v) Flame Retardant Standard: IEC 60332-1-2 vi) Long time Operating temperature: 90°C vii) Short circuit temperature: 250°C
15.	Catalogue	One set technical catalogue in English to be provided with the offer.
16.	Test trial	Test trial will be carried out at KSY by the supplier.
17.	Warranty	03 (Three) Years from successful test and trial.
18.	Shelf Life	To be mentioned

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6. SPECIFICATION OF ARGON FLOW METER WITH REGULATOR


Ser	Purpose	The flow rate of Argon gas is measured in litres per minute (lpm), using a gauge which is attached at top of the cylinder. It is suitable for gas flow monitoring in piping systems, laboratories, MIG/TIG gas shielded welding and other occasions. The input pressure of the flowmeter is set to 0.35mpa. The accuracy level is 4. The square protective cover makes the scales on all sides more clear and easy to read.
1.	Amount	05 (five) complete sets
2.	Date of manufacture	2022
3.	Brand & model	To be mentioned.
4.	Inlet pressure gauge	0 - 4,000psi (0 - 280kg/cm ²)
5.	Outlet pressure	Maximum 29psi (2kg/cm ²) (Preset)
6.	Inlet connection	BS-3, CGA-580, W22-14 RH-Male
7.	Outlet connection	3/8 BSP-RH, 9/16-18 UNF-RH
8.	Flowmeter (tube type)	1 - 25 L/min (Preset: 29psi (2kg/cm ²))
9.	Accuracy of flow rate	±5% F.S. (at 20°C / 0.2MPa)
10.	Operating temperature	-10°C ~ 40°C
11.	Body material	C3771 Brass
12.	Standard Accessories	All necessary fittings and standard accessories which are required for immediate operation of argon flow meter with regulator, but not mentioned in this specification are to be provided with the set at the time of delivery.
13.	Certificate	The local supplier must provide following original certificate(s)/ document(s) with the offer/ quotation of items : a. One certificate/ document by the manufacturer in favor of the supplier (in case of manufacturer as direct source). b. One latest certificate/ document for calibration of the offered item.
14.	Test sample	Test sample should be provided within two weeks after awarding of the tender and work order/ purchase order will be given after satisfactory testing of the sample.
15.	Warranty	01 (One) year after acceptance by KSY.
16.	Catalogue	One set technical catalogue in English to be provided with the offer.


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7. SPECIFICATION OF WIRE FEEDING MACHINE

Ser	Purpose	It is closed type wire feeding device, more safe protections, and reduced occurrence of short circuit used in AMIG 500PM welding machine. It has 4WD wire feeding motor, reliable DC speed adjusting circuit, more stable wire feeding speed and Euro-type welding torch connector. It has Current and voltage adjustment switch.
1.	Amount	05 (five) complete sets
2.	Date of manufacture	2022
3.	Wire feeding machine brand & model	Aotai WF-500P-WD
4.	Welding Materials	Aluminum (Soft & Hard)
5.	Welding Wire Diameter of Wire feeding Machine	Should be of ϕ 1.0 mm, ϕ 1.2 mm & ϕ 1.6 mm.
6.	Wire feeding speed	2.5-20 m/min
7.	Wire Carrying weight	Minimum 15 kg (to be mentioned).
8.	Compatibility	Wire feeding machine must be compatible with power source and MIG welding torch.
9.	Standard Accessories	All necessary fittings and standard accessories which are required for immediate operation of Wire feeding machine, but not mentioned in this specification are to be provided with the set at the time of delivery. 01 in number with required standard accessories including feed rolls, wire reel shaft, wire straightener, torch cable connection, pressure roll, frame, pressure handle, torch connection part etc. for each set.
10.	Certificate	The local supplier must provide following original certificate(s)/ document(s) with the offer/ quotation of items : a. One certificate/ document by the manufacturer in favor of the supplier (in case of manufacturer as direct source).
11.	Test sample	Test sample should be provided within two weeks after awarding of the tender and work order/ purchase order will be given after satisfactory testing of the sample.
12.	Warranty	01 (One) year after acceptance by KSY.
13.	Catalogue	One set technical catalogue in English to be provided with the offer.


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