



KHULNA SHIPYARD LIMITED

BANGLADESH NAVY, KHULNA.

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BABE (F) – 241/Mig/2019-2020

03 September 2019

Dear Sir

INVITATION FOR QUOTATION OF 02 COMPLETE SET AC/DC PULSE MIG WELDING MACHINE.

1. Khulna Shipyard Limited will procure 02 complete set of AC/DC Pulse Mig Welding Machine **as per the attached specification.** (05 pages)
2. Please send your offer on CFR Chittagong Sea Port Or including custom duty, local vat & tax etc. at KSY site within 15/09/2019 (1500 Hours) by e-mail or close envelop.
3. Insurance will be covered by this organization if offer CFR basis.
4. Payment:
 - a) If price CFR basis: Payment should be made by 100% by L/C.
 - b) If price is KSY site basis: 100% payment should be made after satisfactory acceptance by KSY deducted VAT & Tax.
5. Shipment: 60 days from the opening date of L/C or Purchase Order.
6. **1%** (one) Bid Bond of the total quoted CFR value must be submit with offer Bid Bond may be Bank Draft / Pay Order / Bank Guarantee in favour of Khulna Shipyard Limited, Khulna.
7. 10% Performance guarantee is to be submitted before Purchase Order.
8. Offer validity : 60 days from Tender opening date.

Thanking you

Yours sincerely

SK. SHAH MOSHIUR RAHMAN
Manager Commercial
For Managing Director

- c. Test and trial (as per paragraph 15).
- d. Warranty (as per paragraph 16).
- e. Any other issue relevant (if any).

11. **Technical Specification.**

a. **General:**

(1)	Brand	To be mentioned.
(2)	Model	To be mentioned.
(3)	Type	Heavy Duty Industrial type.
(4)	Welding Materials	Aluminum (Soft & Hard).
(5)	Minimum Plate Thickness	The Machine should be able to weld minimum plate thickness of 2 mm.
(7)	Welding Processes	MIG (Metal Inert Gas) Welding.
(8)	Protective Gas	Argon.
(9)	Mounting	Rack mounted with wheels.
(10)	Control Panel	The Control Panel should have following facilities : (i) Current and Voltage LED digital display. (ii) Welding current regulator. (iii) Welding voltage regulator. (iv) Soft touch key operation.

b. **Power Source.**

(1)	Input power	400 V ($\pm 10\%$), 3Phase , 50 Hz.
(2)	Rated Duty Cycle	i. For DC & DC Pulse Minimum 400A @ 40% duty cycle. ii. For AC Pulse Minimum 350A @ 60% duty cycle.
(3)	Output Current Range	30A ~ 400A or better.
(4)	Output Voltage Range	To be mentioned.
(5)	Rated No-Load Voltage	To be mentioned.
(6)	Rectifier for DC Output	AC/DC Pulse MIG welding machine should have inbuilt rectifier for producing rated DC output.
(7)	Cooling system	Air cooled.
(8)	Insulation Grade	F or Better.
(9)	Ingress Protection Rating	IP 54 or better.
(10)	Welding wire diameter	Should be of ϕ 1.0 mm, ϕ 1.2 mm & ϕ 1.6 mm.

c. **MIG Welding Torch:**

(1)	MAG Welding Torch	01 in number air cooled MIG Welding Torch with required standard accessories including nozzle,
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		contact tip, gun tube, insulator, gasket, diffuser etc.
(2)	Brand & Model	To be mentioned.
(3)	Rated duty cycle of MAG Welding Torch	i. For DC MIG Minimum 300A @ 50% duty cycle. ii. For Pulse MIG Minimum 300A @ 30% duty cycle.
(4)	Length of power cable	Minimum 3 meter.
(5)	Length of liner	Minimum 3 meter.
(6)	Cooling system	Air cooled.
(7)	Welding wire diameter	Should be of ϕ 1.0 mm, ϕ 1.2 mm & ϕ 1.6 mm.
(8)	Compatibility	MIG welding torch must be compatible with power source and wire feeder.

d. **Argon Flow Meter with Regulator & Analog Remote Control Box:**

(1)	Argon Flow Meter with Regulator	01 in number.
(2)	Argon Flow Meter with Regulator Brand & Model	To be mentioned.
(3)	Analog remote Control Box	01 in number.
(4)	Analog remote Control Box Brand & Model	To be mentioned.

e. **Wire feeding machine:**

(1)	Wire feeding machine	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.
(2)	Wire feeding machine brand & model	To be mentioned.
(3)	Welding Materials	Aluminum (Soft & Hard)
(4)	Welding Wire Diameter of Wire feeding Machine	Should be of ϕ 1.0 mm, ϕ 1.2 mm & ϕ 1.6 mm.
(5)	Wire feed speed	To be mentioned.
(6)	Wire Carrying weight	Minimum 15 kg (to be mentioned).
(7)	Compatibility	Wire feeding machine must be compatible with power source and MIG welding torch.

f. **Cables:**






(1)	Hose pipe for Argon gas	Minimum 20 meter.
(2)	Control cable (10 Core)	Minimum 20 meter.
(3)	Welding/Torch cable (60 mm ²)	Minimum 20 meter.

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(4)	Analog remote Control Cable	Minimum 20 meter.
(5)	Input Line Cable(10 mm ²)	Minimum 25 meter.

- g. **Weight.** To be mentioned (Light weight will be preferable).
- h. **Dimensions.** To be mentioned (compact and smaller size is preferable).
12. **Standard Accessories.** All necessary fittings and standard accessories which are required for immediate operation of AC/DC Pulse MIG welding machine, 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 connectors, plug, fuses etc.
13. **Catalogue.** One set technical catalogue in English is to be provided with the offer.
14. **Manual and Documents.** Operation/Service & Maintenance Manual and Parts Catalogue are to be provided in English during delivery.
15. **Test, Trial, Commissioning and Acceptance.** Test and trial will be carried out by the supplier at KSY premises. All expenses will be borne by the supplier. After satisfactory test & trial, acceptance certificate will be signed jointly by the representative of supplier and the representative of buyer.
16. **Warranty.** 1 year from successful test and trial.
17. **Nameplate.** Nameplate of AC/DC Pulse MIG welding machine with standard accessories is to be provided in English.
18. **Shipment.** The following information is to be provided:
- The supplier will arrange shipment at KSY.
 - All items will be delivered in sea-worthy/ air worthy packing to ensure safe transportation by sea/air.
 - All packages are to have packing notes showing their contents in details and all packages shall be marked with the name and address of the consignee and gross weight.
 - Port of Shipment.** Any port of the manufacturing country.
19. **Delivery.** Items are to be delivered within 03 (three) months from the date of signing the contract or purchase order.
20. **Validity of Offer.** The offer will remain valid for 03 (three) months from the date of opening of tender.
21. **Terms of Payment.** L/C for full purchase amount will be opened in favor of the principal supplier under the following payment terms:

By  for    

a. 80% of total CFR value will be paid on delivery of the items described under the scope of supply and on production of necessary shipping documents.

b. Remaining 20% of CFR value will be paid on producing 'Acceptance Certificate' after satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.

22. **Compliance Statement.** One set of Compliance Statement is to be submitted along with the offer by the bidder.