

IRCON INTERNATIONAL LIMITED

(A Government of India Undertaking)

NEW DELHI – 110 017

Fax: 0091-11-26522000

Tel: 0091-11-29565666

ISSUED TO

M/S _____

(NON TRANSFERABLE)

IRCON INTERNATIONAL LIMITED
(A Government of India Undertaking)

NOTICE INVITING TENDER (NIT)

FOR

SUPPLY, TESTING & COMMISSIONING

OF

01 NO. PORTABLE AIR PLASMA CUTTING MACHINE

FOR

RAIL COACH FACTORY (RCF) PROJECT

AT RAE BARELI IN UTTAR PRADESH (INDIA)

-

IRCON INTERNATIONAL LIMITED

NOTICE INVITING TENDER

FOR

**SUPPLY, TESTING & COMMISSIONING OF
01 NO. PORTABLE AIR PLASMA CUTTING MACHINE
AT RCF PROJECT, RAE BARELI IN U.P. (INDIA)**

TENDER NO: - IRCON/MECH/1029/RCF-RBL/ PLASMA CUTTER/25

DATED: 16th July, 2010

LAST DATE OF SUBMISSION: 10 .08.2010 AT 15.30 HOURS

VENUE OF TENDER:

Office of General Manager (Mechanical)
Fourth Floor, Ircon International Limited
Plot no.C-4, District Centre,
Saket, New Delhi – 110 017 (India)
Tel : 011- 29565666
Fax: 011- 26522000, 26854000

IRCON INTERNATIONAL LTD.
(A Govt. of India Undertaking)

NOTICE INVITING TENDER (NIT)

TENDER NO. IRCON/MECH/1029/RCF-RBL/PLASMA CUTTER/25 Dated 16.07.2010

Ircon International Ltd. invites sealed tenders for supply, erection, testing & commissioning of **01 NO. PORTABLE AIR PLASMA CUTTING MACHINE** for our Project at RCF, Lalganj, near Rae Bareilly, U.P., India from reputed manufacturers/suppliers.

Sale of Tender	: From 16.07.2010 to 09.08.2010 (from 10.00 to 16.00 Hrs.)
Last Date of receipt of the bids	: 10.08.2010 upto 15.30 Hrs.
Tender Opening (Packet-1 only)	: 10.08.2010 at 16.00 hrs
EMD/Bid Security	: Rs. 5000/-

The Bidder shall provide EMD/Bid Security for Rs. 5000/- (Rupees Five Thousand Only) in form of a Demand Draft favoring **Ircon International Limited** and payable at New Delhi. The bid security shall be valid for a period of 90 days beyond the tender validity.

Tender documents containing the full terms & conditions etc. can be purchased on all working days from the office of GM/Mechanical, M/s Ircon International Limited, C-4 District Centre, Saket, New Delhi – 110 017, (India), Tel: 011-29565666, Fax: 011-26522000, 26854000 against a payment of Rs. 1000/- (Rupees One thousand only) payable by a demand draft drawn in favor of Ircon International Limited, payable at New Delhi.

If the tender documents are required by post, the postal request for tender document should be sent to the above mentioned address, with an additional amount of Rs.200/- (to cover postal expenses) in form of a DD in favour of Ircon International Limited, payable at New Delhi. Last date for the receipt of request for supply of tender documents by post is **02.08.2010**. However, IRCON takes no responsibility for delay, loss, damages on non-receipt of tender documents by post.

The tender documents can also be downloaded from IRCON's website www.ircon.org. In case the tender documents is downloaded from IRCON's web site, Rs. 1,000/- towards cost of tender documents, must be submitted along with the bid by a demand draft drawn in favor of Ircon International Limited, payable at New Delhi.

The bidders must fulfill the following pre-qualification criteria, without which the offer is liable to be rejected :

Financial eligibility criteria

The average annual turnover from manufacturing activity of this type of equipment of different capacities should not be less than Rs 1,00,000/- (Rupees One Lakh Only). Average turnover shall be calculated for the best 3 years out of last 5 years period ending 31.3.2010. Copy of audited Turnover Statement, profit & Loss Account and Balance sheet for the last 5 Years must be furnished with the bid.

Supply criteria – For ' PORTABLE AIR PLASMA CUTTING MACHINE ' offered:

- 1) *The 'Offered equipment' should have been in service for not less than 5 years from the date of offer.*
- 2) *Population in service of the offered equipment globally (including India) should not be less than 10.*
- 3) *Out of the above, population in service of the offered equipment in India should not be less than 4.*
- 4) *Equipment sold during the last 3 years within India should not be less than 2.*
- 5) *Offers for such bidders who do not have repair and maintenance base/authorised agent for repairs within India for the equipment offered shall not be considered. Details of such facilities will be clearly stated in the offer.*

Note 1) "Offered PORTABLE AIR PLASMA CUTTING MACHINE "means similar or higher capacity equipment.

- 2) *In support of 'Supply Criteria' copy of purchase order or inspection certificate or user certificate is to be enclosed by bidder with the bid.*
- 3) *Bidders should fill up Annexure I-D along with copies of supporting documentary proofs to qualify this pre-qualification criterion.*

Offer must be accompanied with the specified amount of Earnest Money. Offer received without EMD/cost of tender documents (in case tender document is downloaded from IRCON's web site) will be rejected. Tender document is not transferable. Tenders can be sent by post or dropped in the Tender Box provided for this purpose at the above mentioned address, on or before the last date & time of receipt of bids.

In case the office is closed on the stipulated date and time due to some unaccounted holiday or bandh etc. the tender will be received and opened on the next working day at the same time. IRCON reserves the right to issue Tender documents OR cancel the tender OR reject any or all the tenders without assigning any reasons.

Purchaser reserves the right to issue, accept, negotiate, cancel or reject any tender or to annul and reject all tenders at any time prior to the award of the contract without incurring any liability to the affected tenderers or any obligation to inform affected tenderer, the grounds of such action

**GENERAL MANAGER (MECHANICAL)
IRCON INTERNATIONAL LIMITED**

No. IRCON/MECH/1029/RCF RBL/PLASMA CUTTER /25

Date 16.07.2010

To

Dear Sir,

Sub:- Tender for supply, testing & commissioning of 01 No. Portable Air Plasma Cutting Machine for our Project at Rail coach factory (RCF), Rae Bareli, (UP), India.

Tender No. IRCON/MECH/1029/RCF RBL/PLASMA CUTTER/25 Dated 16.07.10

Iron International Limited (IRCON), A Government of India Undertaking hereby invites sealed tender (2 packet system) for supply, testing & commissioning of 01 No Portable Air Plasma Cutting Machine for our Project at RCF, Rae Bareli, U.P., India

Bid Security : Rs. 5000/- (Rupees Five Thousand Only)

Preferred Delivery, CIF Site : Within 3 to 4 months from date of Letter of Acceptance (LOA) or Purchase Order (PO), whichever is earlier.

The Terms and Conditions of the contract are enclosed as Section-I and Technical Specifications are enclosed as Section II. Sealed tenders can be deposited in the Tender Box upto 15.30 hrs. on 10.08.2010. The sealed tenders (Packet-I) will be opened at 16.00 hrs. on 10.08.2010.

Bidders will sign and stamp every page of the original tender document and submit to IRCON as a token of having read and accepted all the terms and conditions of the tender.

Format for Deviation Statement is enclosed as Annexure-IIA of Section-II of these tender documents. Bidders are required to mention all deviations either commercial or technical in their offer in this deviation statement and nowhere else. Deviations / Non Compliances mentioned anywhere else by the bidder in his offer shall not be accepted or taken cognizance of. Deviations, if any, having financial implication should be quantified by the bidder in terms of rupees and the same shall be considered for deciding inter-se merit of the bidders. In case any deviation/condition having financial implications is not quantified as mentioned above, the original tender condition will hold good.

The bidder is deemed to have studied the requirements under statutory laws of the central government / state governments / local bodies / statutory authorities etc. and the bidder must confirm to the

requirements under the existing laws and rules. This would also include the existing rates of all the taxes and duties applicable in India.

The sealed offer should be sent to the following address:

General Manager/Mechanical

IRCON International Limited,

Plot No. C-4, Saket District Centre (4th Floor),

Saket, New Delhi – 110 017 INDIA

Tel. 91-11-29565660, 29565661 Fax: 91-11-26854000 / 26522000

Thanking you,

Yours faithfully

RANDHIR GUPTA

Addl. General Manager (Mech.)

Enclosures –

Section I: Conditions of Contract

- (a) Annexure I-A: Price Schedule
- (b) Annexure I-B: Format for Performance Bank Guarantee
- (c) Annexure I-C: Commercial Details for Past Performance
- (d) Annexure I-D: Details to be filled by bidder to qualify pre qualification criteria.

Section II: Specifications for Portable Air Plasma Cutting machine

- (a) Schedule I - Leading Parameters
- (b) Schedule II - General Specification (Electrical)
- (c) Schedule III – General Characteristics
- (d) Annexure IIA: Declaration by bidder

IRCON INTERNATIONAL LIMITED

SECTION - I

CONDITIONS OF CONTRACT (FOR PURCHASE OF MACHINERY, PLANT & EQUIPMENT)

NOTE: Any particulars mentioned in Section – II shall override same if mentioned in Section I.

1. **DEFINITIONS:**

"Purchaser" means IRCON INTERNATIONAL LIMITED, Delhi and "Supplier" means such persons, firms, company, Government or other authority as may supply or agree to supply stores/Plant & Equipment (PE) and /or services to the purchaser. "Consignee" means IRCON, RCF, Rae Bareli. "Ultimate Consignee" means RCF, Rae Bareli.

2. **SCOPE OF WORK:**

A. SUPPLY:

The Plant & Equipment (PE) to be supplied shall be new and as per specifications given at **Section – II.**

PE offered must be of proven design and capacity. It must be capable of continuous operation for long periods in temperatures from 0 to 50 degrees Celsius and humidity up to 98%.

B. INSTALLATION AND COMMISSIONING:

The Bidder shall install and commission the PE at place of delivery as per Delivery Schedule. All facilities required for the above such as cranes, lifting arrangement, tools & tackles, welding or cutting machine, first fill of all lubricants/oils and consumables etc shall also be the responsibility of the Bidder. IRCON shall provide the electricity and water (wherever required).

IRCON will provide electric connection at one point nearest to the machine area (within a range of 10 to 15 meters from the machine/PE) and all further arrangements / connections shall be done by bidder at his own cost.

Initial Commissioning Certificate:

The manufacture/supplier shall be issued with an Initial Commissioning Certificate by RCF/RBL after satisfactory start up of the machine and satisfactory working for two shifts (16 hours)

Commissioning cum Proving Test Certificate (CPTC):

(a) For PE valuing more than Rs. 1 crore:

Installation and commissioning shall be taken to have been completed after the PE gives satisfactory service for the capacity as claimed by the Bidder for one month. In case adequate work load is not made available on M&P by RCF/RBL then cumulative 100 hours of satisfactory operation/use would be taken as the proving out period for issue of PTC. On successful completion of this, the Ultimate Consignee i.e. RCF/Rae Bareli will issue a Commissioning cum Proving Test Certificate (PTC) to the supplier.

(b) For PE valuing less than or equal to Rs. 1 crore:

Installation and commissioning shall be taken to have been completed after the PE gives satisfactory service for the capacity as claimed by the Bidder for two weeks. In case adequate work load is not made available on M&P by RCF/RBL then cumulative 50 hours of satisfactory operation/use would be taken as the proving out period for issue of PTC. On successful completion of this, the Ultimate Consignee i.e. RCF/Rae Bareli will issue a Commissioning cum Proving Test Certificate (PTC) to the supplier.

The manufacturer / supplier shall depute his authorized experienced installation / commissioning team immediately on receipt of material at site at his own cost. The bidder shall arrange to keep all civil works including foundation & other electrical works ready prior to arrival of equipment at site (wherever required) so that precious time is not wasted after arrival of the PE at site and the work of installation can start immediately.

C. TRAINING

Bidder's shall depute their experienced personnel to site at their own cost for a period of as specified in section - II to train the 3-5 (Three to five) RCF/IRCON personnel in commissioning, operation and maintenance of the equipment/plant and to ensure that RCF's operators/ maintenance personnel pick up adequate level of skills in circuitry, Electrical, Electronics and trouble shooting required to maintain and operate the equipment. Bidder shall give a notice of 15 days for the visit of Bidder's personnel to site.

3. **VALIDITY OF OFFER:**

The validity of offer shall be 90 days from the date of opening of offer.

4. **DELIVERY PERIOD:**

Preferred Delivery, CIF Site : Within 3 to 4 months from date of Letter of Acceptance (LOA) or Purchase Order (PO), whichever is earlier.

Complete Delivery schedule of PE with the confirmed FOB and CIF site at RCF, Rae Bareli, U.P., India (in case of foreign PE) and CIF site at RCF, Rae Bareli, U.P., India (for indigenous PE) should be given by the bidder. The PE shall be delivered at RCF, Rae Bareli, U.P., India

within the delivery period mentioned in the NIT / Tender Enquiry.

For indigenous PE: The delivery period shall deem to start from the date of issue of Letter of Acceptance (LOA) / Purchase Order (PO), whichever is earlier

Liquidated Damage shall be applicable on CIF site delivery period as mentioned in LOA / Purchase Order.

For Foreign PE: The delivery period shall deem to start from date of issue of Letter of Acceptance (LOA) / Purchase Order (PO) / opening of Letter of Credit (L/C), whichever is later.

Liquidated Damage shall be applicable on FOB (Country of origin) as well as CIF site (RCF/Rae Bareli/India) delivery period as mentioned in LOA / Purchase Order.

5. **CURRENCY:**

In case of Indian Bidders, Prices shall be quoted & paid in Indian Rupees (INR).

In case of foreign suppliers, Prices shall be quoted in Foreign Currency and payable, as the supplier desires, in Foreign Currency (FC) or INR. For all purposes including evaluation of offers, exchange rate (SBI TT Selling Rate) on the date of opening of the Bids (Packet-1) shall be frozen for the entire duration of the contract.

6. **PRICES:**

6.1 Prices quoted shall be CIF (RCF, Rae Bareli, U.P., India) including all handling, loading & unloading, sea & inland transportation, marine & transit insurance, custom clearance, installation, testing and commissioning, first fill of oils, lubricants and other consumables in **Price Schedules attached as Annexure I-A.**

6.2 Prices shall be inclusive of all temporary permit, freight, insurance and all such other costs. Prices shall remain firm and no escalation shall be permissible. All statutory taxes and duties including entry tax, as applicable, within India shall be paid by the bidder.

Any change in the rate of tax/duties in India by the Central Govt./State Govt./Local Bodies after the date of submission of tender shall be paid by the bidder which shall be reimbursed by IRCON at actuals against proof of payment.

6.3 The Excise Duty and CST (against FORM-C which shall be given by IRCON/RCF) in case of Indigenous component should be shown separately in Price Schedule, Annexure I-A.

6.4 For equipment of foreign origin, the supplier / manufacturer / Indian representative of the manufacturer shall also arrange for custom clearance, port handling and inland transportation/insurance of the PE from Indian Port to site at RCF, Rae Bareli. Custom Duty as applicable shall also be paid by the bidder.

Any change in the rate of custom duty in India by the Govt. of India after the date of submission of tender shall be paid by the bidder and will be reimbursed by IRCON at actuals against proof of payment.

7. **EVALUATION CRITERIA**

The commercial evaluation will take into consideration the following:-

- i) Cost of PE CIF site
- ii) Cost of Concomitant accessories and any other accessories quoted by the bidder as concomitant accessories
- iii) Applicable taxes and duties including custom duty (if any), port charges, insurance, freight, all loading, unloading and handling charges
- iv) Cost of all civil/electrical works including foundation work.
- v) Cost of installation and commissioning.
- vi) Cost of training

Optional Items – not for commercial evaluation – to be quoted separately

Spares considered essential by the tenderer for two years normal maintenance, to cover the complete range of mechanical, hydraulic and electrical equipment, to be quoted separately in Packet-2

8. **PAYMENT TERMS:**

8.1 Payment for foreign component of equipment shall be made in the following manner:

- i) 80% of CIF site value of supplies portion including 100% of taxes and duties on production of shipping documents through L/C or Telex Transfer (TT).
- ii) Balance 20% of supplies portion on completion of installation, commissioning and training on issue of CPTC by ultimate consignee i.e. RCF/RBL and Satisfactory Work Completion Certificate from IRCON. Where, however, the installation and commissioning of the machine is delayed or put off beyond 90 days of the receipt of the goods at the ultimate destination due to express written instructions of the Purchaser / Consignee, the balance 20% payment shall be released to the supplier on his furnishing an additional Bank guarantee to cover this 20% value.

The Bank guarantee as mentioned above should be from a Scheduled Indian Bank as per format of IRCON.

8.2 Payment for Indian components of equipment shall be made in the following manner:

- i) 80% of CIF site value of supplies portion including 100% of taxes and duties on receipt of equipments at RCF and on production of proof of receipt by **consignee** along with bill.
- ii) Balance 20% of supplies portion on completion of installation, commissioning and training on issue of CPTC by Ultimate Consignee i.e. RCF/RBL and Satisfactory Work

Completion Certificate from IRCON. Where, however, the installation and commissioning of the machine is delayed or put off beyond 90 days of the receipt of the goods at the ultimate destination due to express written instructions of the Purchaser / Consignee, the balance 20% payment shall be released to the supplier on his furnishing an additional Bank guarantee to cover this 20% value.

The Bank guarantee as mentioned above should be from a Scheduled Indian Bank as per format of IRCON.

- 8.3 Payment shall be made by cheque / Electronic Transfer of Funds on a Bank in India in the quoted currency after deducting necessary taxes as applicable. For other modes of payment such as Letter of Credit (LC), Telex Transfer (TT), all Bank charges for opening, confirmation and amendments of LC/TT in India and in abroad shall be borne by the Bidder.
- 8.4 100% Payment for installation & commissioning and training charges and services shall be made by IRCON on issue of PTC by RCF/RBL
- 8.5 It is the responsibility of supplier / manufacturer or his Indian representative to commission the PE and demonstrate performance of the PE to the satisfaction of RCF/RBL so that PTC is issued by RCF/RBL in time. For this the supplier / manufacturer or his Indian representative shall closely co-ordinate with RCF/RBL.

9. **BID SECURITY/EMD:**

The Bidder shall provide Bid Security for the amount shown in tender enquiry in form of Demand Draft drawn in favour of IRCON INTERNATIONAL LIMITED payable at New Delhi / Fixed Deposit Receipt (FDR) endorsed in IRCON's favour from a Scheduled Bank in India.

If the bidder withdraw/modifies his bid for any reason during its validity, the bid security shall be forfeited. Failure to submit bid security would lead to rejection of offer.

For foreign bidder, bid security for an equivalent amount in the currency quoted shall be furnished in the form of Demand Draft from a Scheduled Bank in India.

Bid Security (without any interest) of un-successful bidders shall be released after the finalization of tender and bid security of successful bidder shall be released after the submission of performance security/performance bank guarantee.

Bidders registered with NSIC are exempted by Government of India from, submission of EMD and this shall be considered provided the bidder encloses all relevant certificates to this effect.

10. **PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE:**

The successful bidder is expected to submit within 15 days of signing of letter of acceptance (award letter), an unconditional, irrevocable, Performance Bank Guarantee from a Schedule Bank in India and acceptable to IRCON as per proforma enclosed at **Annexure '1-B'** for an amount equivalent to **10 %** of the contract value for a period of 27 months from the Letter of acceptance (LOA) or 24 months from the date of commissioning, **which ever is later**.

Non submission of above Performance security within the stipulated time would lead to forfeiture of Bid security/EMD and withholding of all due payments .

The Performance Guarantee shall be released on the completion of the above period and certification of satisfactory performance of the contract from RCF/RBL and IRCON Project Office at RCF/RBL.

11. **DOCUMENTS:**

a) Following documents will be **submitted along with the offer:**

- i) Bid security/EMD (Earnest Money Deposit)
- ii) List of purchasers of the PE, both in India and abroad (as per **Annexure-1-C**)
- iii) Latest Annual Report
- iv) All filled in formats and statements to be attached with this offer.
- v) Total plant electrical load should be indicated.
- vi) List of lubricant oils, gas, hydraulic oil etc. required for normal operation of indigenous grade and make.

b) Following documents will be **submitted along with each equipment/ plant to consignee.**

- i) Catalogues and complete parts list, including spares List with sub-vendor details.
- ii) Operation and maintenance manual
- iii) Electrical, electronic, hydraulic and lubrication circuit diagrams.
- iv) Erection drawings and manual
- v) Erection, commissioning and trouble shooting instructions.
- vi) Country of origin certificate issued by government authority/ Consulate/ recognized Certifying Authority.
- vii) Certificate of Insurance, as applicable as per terms of purchaser order.
- viii) Write up on safety measures/provisions.

12. **INSPECTION:**

IRCON reserves its right for Pre-shipment/pre-dispatch inspection which may be carried out at manufacturer's/supplier's work by IRCON's authorised representative or a third party inspection agency nominated by IRCON to ensure that the materials/equipment, being supplied, conform

to the contractual specifications. Travelling, lodging and boarding expenses of IRCON's representative(s) shall be borne by IRCON but necessary facilities to carry out tests/witness inspection shall be provided by the manufacturer/supplier, free of cost.

Within 30-45 days of receipt of purchase order/contract, the supplier/ manufacturer shall submit to IRCON details of test procedures, test program, test parameters together with permitted values, etc., and their Quality Assurance plan.

Manufacturer/Supplier, shall give, in writing, at least 30 day's notice in case of supplies from abroad and 10 day's notice in case supplies from India, to IRCON's nominated Inspecting Agency to enable it to depute its authorised representative to witness the inspection of the materials/equipment.

In case IRCON's representative is unable to reach the venue of inspection on the specified date and time or in case IRCON decides not to inspect/witness the inspection, the manufacturer/supplier shall go ahead with the testing/inspection, as scheduled. However, authenticated copies of test reports, indicating various test procedures and test parameters, together with permitted values as well as the values actually obtained, shall be faxed/submitted to IRCON for approval. The material/equipment shall be dispatched only after receipt of IRCON's written approval of the inspection/test report or Waiver of Inspection, as the case may be.

In case equipment fails or is found defective during inspection, as well as in those cases where equipment is not ready for inspection at the appointed time and dates, total cost of re-inspection including travel, lodging and boarding of the inspection officials shall be to manufacturer's/supplier's account.

IRCON's representative(s) may include RCF's representative(s), IRCON's employee(s) or employee(s) of an independent agency appointed by IRCON such as M/s. RITES Ltd. or RA Berlin (for equipment of foreign origin).

13. **WARRANTY:**

- a) Notwithstanding the pre-dispatch inspection by IRCON's representative, Bidder shall provide complete warranty against any manufacturing defect, design and such other defects for a period of 24 months from the date of commissioning & proving out of M&P. All such defects shall be removed by the Bidder at his own cost within a period of 2 (two) weeks.
- b) Maximum down time during the warranty period will be 2% (two percent) for on line M&P and 10% (ten percent) for of line M&P calculated on quarterly basis.
- c) A penalty of 0.5% (Zero point five percent) per week of Contract value will be levied for delay in response time for attending and rectification of faults beyond specified time during the warranty period as detailed above in clause 13 (a).

- d) Maximum penalty to be levied on account of warranty failure will be 5% (Five percent) of the contract value calculated during the whole warranty period and after that if there is any delay on the part of the supplier, purchaser shall be entitled for encashment of Performance Bank Guarantee. In such cases the bad performance of the firm during the warranty period, the same shall be recorded and circulated to all Railways. The same should be given due regard in deciding future orders on the firm and when evidence to the contrary is not available the firm's offer may be even rejected.

14. **AFTER SALE SERVICE AND SUPPORT:**

Bidder should indicate clearly all the existing 'After Sales Services and Support' network available in India indicating the number of service engineers available.

Offer for such PE which do not have repair and maintenance base/ authorised agent for repairs within India are likely to be rejected.

15. **SPARE PARTS**

The Bidder shall guarantee the availability of spare parts/components at the same price and terms and condition as indicated in the bid for at least one year from the date of commissioning.

The bidder shall further guarantee availability of all spare parts for a period of at least 10 years from the date of issue of purchase order.

16. **INDEMNITIES**

The supplier shall indemnify and keep the purchaser indemnified against all actions, proceedings claims, damages, costs and expenses arising from the incorporation in or use of work of any such articles, processes or supplies made under this agreement. Supplier shall at all times indemnify the Purchaser against all claims which may be made in respect of the Stores for infringement or any right protected by patent, registration of design or trade mark and shall take all risk accidents or damages which may cause a failure or the supply of the whatever cause arising and the entire responsibility for the sufficiency of all the means used by the supplier for the fulfillment of the contracts provided always that in the event of any claim in respect of alleged break of letter patent, registered design or trade marks being made against the Purchaser the Purchaser shall notify the supplier of the same and the Supplier should at his own expenses settle any dispute or conduct any litigation that arise therefrom and the Purchaser will stand absolved of all responsibilities in that connections.

17. **LIQUIDATED DAMAGES:**

(a) For delay in supplies -

If the Bidder fails to supply the material/equipment or complete the work given under this tender enquiry / Order (refer clause 4 of Section I) within the agreed delivery schedules mentioned herein or any extension thereof authorized by the Purchaser and/or fails to fulfil their obligations under this order, the Bidder shall be liable to pay liquidated damages and not by way of penalty, a sum equal to

1/2 (half) percent per week of delay in supply of complete PE subject to maximum of 5 (five) percent of the order value. The compensation shall be payable by the Bidder without prejudice to other rights and remedies available to the Purchaser in respect of any failure/default committed by the Bidder

(b) For delay in Installation and commissioning -

The Successful Bidder or his agents shall install and commission the machine within the stipulated time as shown in the tender enquiry/order (refer clause 8.3 of Section - II). This time frame will be applicable from the date of arrival of PE at site.

The time allowed for installation and commissioning of machine by the Successful Bidder or his agent shall be deemed to be the essence of the contract. In case of delay in commissioning of the machine on the part of Successful Bidder, the Purchaser shall be entitled to recover and the Successful Bidder shall be liable to pay liquidated damage at the rate of $\frac{1}{2}$ % **per week of the total contract value, subject to maximum of 5 (five) percent of the order value.**

(c) Provided always that the entire amount of liquidated damages to be paid under the provision of this clause shall not exceed **5% of the total contract value.** After expiry of 5 months period from the date of default, Purchaser will be at liberty to invoke the **Performance Security / Performance Bank Guarantee** submitted by the supplier.

Continuance of commissioning work after expiry of stipulated time will also not absolve the penalty as stated above.

The decision of the Purchaser, whether the delay in commissioning has taken place on account of reasons attributed to the successful Bidder shall be final.

18. **REJECTION OF DEFECTIVE PE:**

- 18.1 If the completed plant, or any portion thereof, before it is accepted or taken over, be defective or fails to fulfill the requirements of the Contract, the RCF/RBL shall give the Contractor notice setting forth particulars of such defects or failure and the Contractor shall forthwith make the defective PE good, or alter the same to make it comply with the requirements of the Contract. Should he fail to do so within a reasonable time, the RCF/RBL may reject and replace at the risk and cost of the Contractor, the whole or any portion of the PE, as the case may be, which is defective or fails to fulfill the requirements of the Contract. However, such rejection/replacement by the RCF/RBL shall not absolve the Contractor of his responsibilities under this Contract.
- 18.2 In the event of such rejection, RCF/RBL shall be entitled to the use of the PE in a reasonable and proper manner for a time reasonably sufficient to enable him to obtain other replacement PE.
- 18.3 If any assembly/subassembly requires to be taken back by the supplier for repairs/replacement either before commissioning or during warranty, the supplier would be required to submit a bank guarantee (BG). The BG should be of adequate value so as to cover the cost of the

assembly/assemblies and shall be decided by the IRCON/RCF, RBL.

19. **TERMINATION:**

I) Termination for default:

IRCON may, without prejudice for breach of contract, 10 days after written notice of default sent to the supplier, terminate this contract in whole or in parts.

- a) If he fails to deliver full or part consignment within the time period(s) specified in the contract or any extension thereof granted by IRCON.
- b) If he fails to perform any other obligation under the contract or,
- c) If he, in either of the above circumstances, does not cure his failure within a period of 30 days or longer period as specified by IRCON after receipt of the default notice from IRCON.

In the event IRCON terminates the contract in whole or in part, pursuant to above, IRCON may procure, upon such terms and in such manner as it deems appropriate, equipment/plant similar to those undelivered, and Supplier shall be liable to IRCON for any excess costs for such similar equipment/plant.

II) Termination for insolvency

IRCON may at any time terminate the contract by giving written notice to Supplier without any compensation, if the supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or effect any right to action or remedy which has accrued or will accrue thereafter to IRCON.

20. **ARBITRATION/SETTLEMENT OF DISPUTES:**

A) Mutual settlement of Disputes:-

Except where otherwise provided for in the contract, all questions and disputes relating to any matter directly or indirectly connected with this agreement shall in the first place be resolved through mutual discussions, negotiations, deliberations and consultations between both the parties.

B) Conciliation:-

If the efforts to resolve all or any of the disputes through mutual settlement fail, such disputes shall be referred to the sole conciliator to be appointed by Managing Director, IRCON.

The conciliator shall make the settlement agreement after the parties reach agreement and shall give an authenticated copy thereof to each of the parties.

The settlement agreement shall be final and binding on the parties. The settlement

agreement shall have the same status and effect of an arbitration award.

C) Arbitration:-

If the efforts to resolve all or any of the disputes through conciliation fails, such disputes shall be referred to the sole arbitrator to be appointed by Managing Director, IRCON.

D) General:-

Subject to aforesaid conditions the provision of the **Arbitration and conciliation Act 1996** or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the conciliation and arbitration proceedings under this clause.

21. **JURISDICTION**

The contract shall in all respect be construed and operative in conformity with the Indian Law and be subject to the jurisdiction of Delhi Courts (India).

22. **FORCE MAJEURE**

Force majeure shall mean unforeseeable cause beyond the control and without the fault or negligence, including but not restricted to acts of God or caused by war, civil commotion, riots, mobilisation, flood, epidemics, quarantine restrictions, freight embargoes and obstructions of navigation at port of exit or entry or acts of Governments.

23. **TWO PACKET SYSTEM**

The Bidders shall submit their offer in a “two packet (envelope) system”.

First Packet (envelope) shall contain the Pre-qualification documents, Technical and Commercial terms & conditions, EMD / Bid Security in the form of Demand Draft / FDR in favour of IRCON and cost of Tender (as detailed in NIT). It should not contain any price bid in this packet. The packet should be superscribed “**Packet-1, Technical & Commercial Offer**”.

Second Packet (envelope) shall contain the Price Offer as per our “Price Schedule” placed at **Annexure I-A**. This packet should not contain any other terms & conditions except price bid. This Packet should be superscribed as “**Packet-2, Price Offer**”.

Both the above packets should then be placed together in an envelope and superscribed with the **enquiry number** and “**NOT TO BE OPENED BEFORE** date and time of opening of tenders as mentioned in the tender enquiry and submitted to IRCON.

The offers should be submitted in our office as per the date and time given. IRCON will first open Packet-1. After IRCON has evaluated the Technical & Commercial offer after

seeking all clarifications, Packet-2 of those bidders only who fully comply with IRCON's requirement technically & commercially, will be opened and compared. A separate communication announcing the date and time will be sent only to those bidders who qualify the technical & commercial evaluation to attend the bid (Packet-2) opening.

Packet-2 of those bidders who do not qualify the Technical & commercial evaluation shall not be opened and returned to the bidder. “

24. **ADDRESS FOR SUBMISSION OF TENDER**

Tenders duly sealed as above should be sent at the following address:

General Manager/Mechanical
IRCON International Limited,
C-4, Saket District Centre (4th Floor),
Saket, New Delhi – 110 017, INDIA

25. **COMPLIANCE TO TENDER TERMS & CONDITIONS**

The offer submitted must be fully complying with the technical and commercial conditions of the contract. The bidder must give confirmation for compliance to technical and commercial conditions of contract as per the ‘declaration by the bidder’ enclosed as Annexure-IIA of Section - II.

Deviations, if any, quoted by bidder must be accompanied with the cost for removing such deviation(s) in the enclosed Annexure II A of Section II

26. **PRE QUALIFICATION CRITERION**

The bidder must fulfill the following criteria pre qualification criteria, without which the offer is liable to be rejected.

Financial eligibility criteria

The average annual turnover from manufacturing activity of this type of equipment of different capacities should not be less than Rs 1,00,000/- (Rupees One lakh only). Average turnover shall be calculated for the best 3 years out of last 5 years period ending 31.3.2010. Copy of audited Turnover Statement, profit & Loss Account and Balance sheet for the last 5 Years must be furnished with the bid.

Supply criteria – For ‘Portable Air Plasma Cutting Machine’ offered:

- 1) The ‘Offered equipment’ should have been in service for not less than 5 years from the date of offer.
- 2) Population in service of the offered equipment globally (including India) should not be less than 10.
- 3) Out of the above, population in service of the offered equipment in India should not be less than 4.
- 4) Equipment sold during the last 3 years within India should not be less than 2.
- 5) Offers for such bidders who do not have repair and maintenance base/authorised agent for repairs within India for the equipment offered shall not be considered. Details of such facilities will be clearly stated in the offer.

Note 1) “Offered Portable Air Plasma Cutting Machine” means similar or higher capacity equipment.

- 2) In support of ‘Supply Criteria’ copy of purchase order or inspection certificate or user certificate is to be enclosed by bidder with the bid.

3) *Bidders should fill up Annexure I-D along with copies of supporting documentary proofs to qualify this pre-qualification criterion.*

27. Purchaser reserves the right to issue, accept, negotiate, cancel or reject any tender or to annul and reject all tenders at any time prior to the award of the contract without incurring any liability to the affected tenderers or any obligation to inform affected tenderer, the grounds of such action.

Annexure I-A

PRICE SCHEDULE

Tender No. :

Currency of Bid _____

Date of Opening:

Sl.No.	Description		Rate		Quantity	Total Amount	
			Foreign currency Component	Indian Rupee Component		Foreign currency Component	Indian Rupee Component
A. 1	Ex works Cost of PE as per technical specification	In figures In words			01 No		
2	Cost for sea freight, marine insurance including port loading/unloading and handling charges, custom clearance, inland transportation, transit insurance upto project site at RCF Rae – Bareli , Uttar Pradesh.	In figures In words					
3	Cost of concomitant accessories as per technical specification CIF, IRCON's site RCF, Rae – Bareli , Uttar Pradesh., (Attach details of cost of concomitant accessories)	In figures In words					
4	Excise Duty for Indian component @ _____%						
5	CST for Indian component only @ _____%						
6	Custom Duty for foreign component at prevailing rate @ _____%						
7	Installation and commissioning charges (including initial fill of oil . Lubes and other consumables)						
8	Training charges (wherever required)						
9	Any other charges						
10	Total destination price				01 No		
11	Cost of optional accessories quoted - Yes / No. Attach annexure if required.						
12	Cost of recommended maintenance spares. Quoted - Yes / No. Attach annexure if required.						
B.1	Delivery period offered.						
2	Terms of payment						
3	Details of Bid Guarantee						
<p>It is hereby certified that we have understood the instructions to Tenderers and also the Conditions of contract attached to the tender and have thoroughly examined specifications, drawings and/or pattern, quoted in the Schedule of Requirements and are thoroughly aware of the nature of stores required and our offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.</p> <p>We hereby declare that in quoting the above price, we have taken into account the entire credit on inputs available under the MODVAT scheme introduced w.e.f. 1.3.1986 and further extended on more items. We further agree to pass on such additional duties set off is may become available in future in respect of all the inputs used in the manufacture of the final product on the date of the supply under the MODVAT Scheme by way of reduction of prices and advise the Purchaser accordingly.</p>							

(Signature & Seal of Tenderer)

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To
IRCON International Limited
Name & Address of Project.

(Acting through (Project In-charge) & Address of the Project)

WHEREAS[name and address of supplier] (hereinafter called " the supplier ") has undertaken ,
in pursuance of Contract No. Dated..... to
execute[name of contract and brief
description of works] (hereinafter called " the contract");

AND WHEREAS it has been stipulated by you in the said Contract that the supplier shall furnish you with a Bank
Guarantee by a scheduled bank for the sum specified therein as security for compliance with his obligations in
accordance with the contract;

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the
supplier, up to a total of _____ [amount of Guarantee], _____ [amount in words], such sum being payable in the types and proportions of currencies in which the Contract
Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any
sum or sums within the limits of _____ [amount of Guarantee] as aforesaid without your needing to prove or
to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the
demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the works
to be performed there under or of any of the Contract documents which may be made between you and the
Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any
such change, addition or modification.

This guarantee shall be valid up to _____ (a date 28 days from the date of completion of the work).

SIGNATURE AND SEAL OF THE GUARANTOR.

Name of Bank : _____
Address: _____
Date: _____

COMMERCIAL DETAILS & PAST PERFORMANCE

Tender No. _____ **Date of Opening** _____

COMMERCIAL DETAILS

- i) Is the firm a small scale unit registered with NSIC ? :
If so, a copy of the registration certificate should be enclosed.

- ii) Name and address of the Banker :
A copy of the banker's report should be enclosed.

- iii) Last 3 years turn over :
(Documentary evidence should be enclosed)

B. PAST PERFORMANCE

Details of orders for the quoted item executed during the past three years should be furnished in the following format:

Sl.No.	Full address of purchaser with contact name and telephone Nos.	Order No. and Date	Description of stores	Qty. and date of supply	Working performance
1	2	3	4	5	6

Signature _____

Name _____

Annexure I-D**PRE QUALIFICATION ELIGIBILITY CRITERIA**

Sl No	Pre Qualification Eligibility Criteria	Response of Supplier	Details of Documentary Proof in support of fulfilling the following criteria.
A Financial eligibility criteria	<i>The average annual turnover from manufacturing activity of this type of equipment of different capacities should not be less than Rs 7, 50,000/- (Rupees Seven Lakh Fifty Thousand Only). Average turnover shall be calculated for the best 3 years out of last 5 years period ending 31.3.2010. Copy of audited Turnover Statement, profit & Loss Account and Balance sheet for the last 5 Years must be furnished with the bid.</i>	Turnover for best 3 years :- (i) Year 1(.....) :- crore, (ii) Year 2 (.....) :- crore, (iii) Year 3(.....) :- crore Average Turn Over for above 3 years (.....) crore.	Copy of balance sheets for above three years to be enclosed
B	Supply criteria – For ' Portable Air Plasma Cutting Machine ' offered:		
1	<i>Bidder to confirm that The 'Offered equipment' should have been in service for not less than 5 years from the date of offer.</i>	Invoice No & Date Purchase Order No & Date User Certificate No& Date ...	Copy to be enclosed of Invoice/Purchase Order/User Certificate for such equipments
2	<i>Population in service of the offered equipment globally (including India) should not be less than 10.</i>	Bidder to indicate quantity of such equipmentsnos	Copy to be enclosed of Invoice/Purchase Order/User Certificate for such equipments
3	<i>Out of the above, population in service of the offered equipment in India should not be less than 4.</i>	Bidder to indicate quantity of such equipmentsnos	Copy to be enclosed of Invoice/Purchase Order/User Certificate for such equipments
4	<i>Equipment sold during the last 3 years within India should not be less than 2.</i>	Bidder to indicate quantity of such equipmentsnos	Copy to be enclosed of Invoice/Purchase Order/User Certificate for such equipments
5	<i>Offers for such bidders who do not have repair and maintenance base/authorised agent for repairs within India for the equipment offered shall not be considered. Details of such facilities will be clearly stated in the offer.</i>	Bidder to mention regarding repair/ maintenance base and after sales services clearly.	
All Blanks (.....) are to be filled by the bidder with year/ amount & other relevant details with clear reference of documentary proof to be enclosed.			

SECTION- II

SPECIFICATION FOR PORTABLE AIR PLASMA CUTTING MACHINE

Specification No. IRCON/RCF-RBL/PLASMA CUTTING MACHINE/2010

1.0 PURPOSE FOR WHICH REQUIRED AND CAPABILITY

1.1 Capability:

The plant should be capable of;

1.1.1 Air plasma/industrial gases cutting of stainless steel sheet thickness up to 06mm and corten steel/mild steel sheet thickness up to 12 mm.

1.1.2 The equipment should be portable and should be suitable for good quality dross free cutting.

1.1.3 This plant is required for cutting of various coach components. This plant should be capable of withstanding intensive use for three shifts.

1.2 Leading Parameters

The capability of the machine should be as per Schedule-1. The bidder should also provide the technical parameters of the machine offered against clauses as given in Schedule-1 along with the bid.

2.0 DESCRIPTION AND SCOPE OF SUPPLY:

2.1 Scope of Supply:

2.1.1 The specification covers supply and commissioning of inverter based portable air plasma cutting plant comprising of power source with in-build high frequency unit, plasma cutting torch, positive lead and ancillary equipment. For basic design features of the machine/plant, please refer clause 3 and its sub-clauses and for general electrical equipment design refer Schedule-II. The supply shall include all concomitant accessories/ equipments, which the manufacturer consider essential to make the machine fully operational when installed and connected to power the supply. The requirements of utilities etc. if any, should be clearly indicated by the tenderers in the offer. Cutting Head of the equipment should be based on cyclonic Turbine "BICT" plasma head technology.

2.2 The Concomitant Accessories:

- 2.2.1 The machine shall be accompanied by the following concomitant accessories, the cost of which shall be included in the basis price of the machine. However, the cost of each item of following concomitant accessories should also be given separately in the offer.
- 2.2.2 Constant current power source **with inverter based technology**. It should be possible to do the infinitely variable cutting adjustments through the control provided on the unit.
- 2.2.3 The power source should have in-built high frequency unit for non contact plasma arc initiation.
- 2.2.4 The power source should have over voltage, under voltage protections.
- 2.2.5 The following indications/controls should be available on the main panel of the plant.
 - 2.2.5.1 The main panel should have suitable safety indicators. The power source should have cutting parameter adjustment through potentiometer available on the power source.
 - 2.2.5.1.1 Thermal indicator for over temperatures
 - 2.2.5.1.2 Main voltage for indicating the input supply voltage.
 - 2.2.5.1.3 Pressure Fault indicator for any loss in the air/gas pressure.
 - 2.2.5.2 A suitable positive lead with proper clamping arrangement should be provided with the plant.
 - 2.2.5.3 The plant should have suitable plasma cutting torch of 7-8 meter length through which a high quality cutting can be achieved.
 - 2.2.5.4 Any other concomitant accessories required to make.
 - 2.2.5.5 The machine fully operational on installation when connected to mains power source must also be included in the scope of supply and the cost of such accessories should be included in the basic price of the machine.

2.3 Optional Accessories:

2.3.1 The optional accessories will include consumables like electrode, nozzle and torch head to be quoted separately. The individual cost each item should be indicated separately.

3.0 BASIC DESIGN FEATURES :

3.1 General Characteristics:

The general characteristics of the machine shall be as per Schedule-III

3.2 Specific Characteristics

3.2.1 Plasma cutting power source:

3.2.1.1 The plasma cutting power source should be a drip proof enclosure constant current inverter based power source with stepless regulation of current. It should be capable of operating at maximum continuous output current at specified duty cycle (as per Schedule-1) without overheating.

3.2.1.2 The power source should be suitable for working on 415 +/- 10% three phase and should be protected against over voltage and under voltage.

3.2.1.3 The power source should be provided with cooling fan for effective forced draft cooling. An automatic device, which must switch off the power source in the event of inadequate airflow, should be provided.

3.2.1.4 The power source unit should be systematically arranged in housing.

3.2.1.5 All control PCB is to be arranged in such a manner that it should be possible to remove or refix easily without affecting/disturbing any other parts and wiring.

3.2.2 Plasma Cutting Torch:

3.2.2.1 The torch should be suitable for cutting the thickness mentioned in the Schedule-I of the specification.

3.2.2.2 The cutting torch should be 7-8 meter long air-cooled. It should be capable to withstand the rated current without over heating.

4.0 TECHNICAL LITERATURE:

4.1 One copy of the printed illustrative catalogue showing features of the machine and its elements must be enclosed with each copy of the bid.

4.2 The successful tender will have to furnish, for each machine 2 copies of spare parts catalogue giving the part list number of each component with exploded views and assembly drawings, maintenance manual, trouble shooting guide, operational manual of the machine and all electrical circuit diagrams including PCB circuits to the consignee directly within 3 months of placement of the purchase order. The bidder should provide a list of literature, they will supply along with the machine. The technical literature shall be provided for complete machine including imported and indigenously purchased components/sub-assemblies.

5.0 SPARES :

5.1 The rate of following optional spares shall be quoted separately along with offer:

1. Control Cards	-	One Set
2. Pressure Gauge	-	01 No.
3. Torch Body	-	02 Nos.
4. Spare Air Plasma cutting torch	-	01 No.
5. Solenoid Valve	-	01 No.
6. IGBT/Thyrister	-	01 Set

5.2 The list of recommended perishable and non-perishable spares required for normal maintenance to cover complete range of mechanical and electrical equipments (including controls) on double shift working basis shall be furnished and quoted separately. The quantities shall relate in case of non-perishable spares to two years normal maintenance and in case of perishable spares, to the duration of its shelf life or two years, whichever is less. The shelf life should be indicated with the quotation for spares. A complete catalogue giving the part list number of each component and assembly drawings shall also be provided with each machine in duplicate.

6.0 SPECIAL FEATURES :

6.1 Special features incorporated into the machine, if any, shall be indicated separately by the tenderer, clearly indicating the advantages of these features.

7.0 TRAINING :

7.1 Technical experts of the manufacturer during commissioning of machine will fully and adequately train (say 3 to 5) operators/maintenance staff nominated by the consignee including repairs of electronics gadgets, sub-assemblies and Printed Circuit Boards up to component level.

8.0 INSTALLATION, COMMISSIONING AND PROVING OUT :

8.1 The tenderer shall arrange commissioning and proving out of the equipment at site Rail Coach Factory, Rai Bareilly (Uttar Pradesh) India. The tenderer or his agent will be required to inspect the consignment at the consignee's premises before unpacking is done and carry out a joint check of the receipt of components to avoid subsequent complaints regarding short shipment or transit. Bidders may refer clause 2(B) of section – I in this regard.

8.2 Adequate number of personnel will be deployed by the tenderer so that installation and commissioning delays are eliminated.

8.3 The tenderer will be required to commission the equipment within 15 days from the date of receipt of equipment on site i.e RCF/RBL.

9.0 DEVIATIONS

9.1 Format for Deviation Statement is enclosed as Annexure-IIA of Section-II of these tender documents. Bidders are required to mention all deviations either commercial or technical in their offer in this deviation statement and nowhere else. Deviations / Non Compliances mentioned anywhere else by the bidder in his offer shall not be accepted or taken cognizance of. Deviations, if any, having financial implication should be quantified by the bidder in terms of rupees and the same shall be considered for deciding inter-se merit of the bidders. In case any deviation/condition having financial implications is not quantified as mentioned above, the original tender condition will hold good.

9.2 Any other information which in the opinion of the supplier is important for consideration by the purchaser.

9.3 Tenderer is required to submit para wise/point wise comments/ remarks in their offer failing which the offer is liable to be rejected.

SCHEDULE – I

Specification No IRCON/RCF-RBL/PLASMA CUTTING MACHINE/2010

Major Parameters:

1.1	Type	Constant current IGBT, Inverter based Air plasma Cutting machine
1.2	Input power supply	415V, 50 Hz, 3-Phase AC Power supply +/-10%
1.3	Out put current range	10 to 50 Amps. Continuously adjustable.
1.4	Open circuit voltage	260 volt DC or above
1.5	Duty cycle	50 Amp at 100% duty cycle
1.6	Air pressure	Min 4-6 Kg/sqcm
1.7	Cutting Capacity	Stainless Steel 6 mm and Corten Steel /Mild Steel 12 mm
1.8	Capacity	Input Power 10 KVA
1.9	Input power cable required	4 x 10 sqmm copper flexible 20 m long
2.0	Length of air plasma torch	7 to 8 meters
2.1	Type of Air Plasma Torch	Curved torch body
2.2	Cooling	Forced Air
2.3	Protection	IP-52
2.4	Power factor	Not less than 0.95
2.5	Weight	Not more than 22 Kg (App.)
2.6	Control System	IGBT based Inverter Controlled
2.7	Air Flow	110L/min
2.8	De Contactor Plug	63 Amp Model “DS6A7A1” make BCH only

2.9 Output Voltage

100-135 V

SCHEDULE-II

GENERAL SPECIFICATION (ELECTRICAL)

- 1.0 The provision of this general specification shall apply.
- 2.0 All equipments and material shall comply with appropriate Indian Standards (latest) or National Standards of the country of origin provided the latter are equivalent to or better than the former. For items for which Indian Standards are not published, National standards shall be acceptable. The tenderer shall indicate the Standards applicable. The following standards are applicable in particular.

(Corresponding International Standards like ASA, MEMA, DIN etc. may also be quoted).

- | | |
|-----------------------|---|
| IS:325-1979 (latest) | - Three phase induction motors (corresponding to IEC Pub-34-1) latest |
| IS:1240 (latest) | - Direct acting indicating analogue electrical measuring instruments and their accessories (corresponding to IEC Pub-51) (latest). |
| IS:1271-1965 (latest) | - Classification of insulation material for elect. Machinery & apparatus in relation to their thermal stability in service (corresponding to IEC-Pub-85) (latest) |
| IS:6875 (latest) | - Push button and related control switches (corresponding to IEC Pub/73) (latest) |
| IS:375-1963 (latest) | - Marking and arrangement of switch gear, bus bars, main connection & Auxiliary wiring. |
| IS:996-1979 (latest) | - Single phase small A.C. and universal electrical motors. |
| IS:2516 (latest) | - Circuit breakers (corresponding to IEC Pub-56) (latest) |

SCHEDULE -III

GENERAL CHARACTERISTICS

1.0 RIGIDITY AND STABILITY

- 1.1 The change in ambient temperature shall not affect the performance of the machine.
- 1.2 There shall be no change in the performance of the machine either on switching on the machine or after continuous running.

2.0 SAFETY CONTROLS

- 2.1 The machine shall incorporate safety devices to provide protection to the operator and machine against all possible operational and machinery failures.
- 2.2 Suitable interlock shall be provided to prevent machine operations in the event of ;
 - faulty sequence of operation
 - fluctuation in supply voltage
 - resumption of power supply after power failure

3.0 MACHINE MAINTAINABILITY:

- 3.1 The machine shall be so designed so as to require minimum possible maintenance and to give trouble free service.
 - 3.2 All assemblies/parts of the machine shall be easily accessible for maintenance.
 - 3.3 The machine shall not require major dis-assembly for checking and replacement of particular part, especially for parts requiring periodical check up and replacement.
- 4.0 The supplier shall furnish 3 sets of complete electrical and electronic wiring diagrams in full details to enable the maintenance staff to locate faults in the circuits, 3 sets of part catalogues, maintenance manuals operation instructions with details of coils and windings used in the equipment to facilitate repairs and maintenance should also be supplied.

5.0 POWER SUPPLY:

- 5.1 The machine should be suitable for operation on 415V +/- 10% at 50 +/- 3% Hz.
- 5.2 The electronics should be well protected against any fluctuation in power supply or any spike.

6.0 ATMOSPHERIC CONDITIONS:

- 6.1 The ambient temperature at the site at which the machine will be installed may vary from 0 degree C to +50 degree C over the year. The relative humidity may be as high as 98%. The atmosphere is expected to be dusty. The machines offered shall be suitably tropicalised to work under these atmospheric conditions without any adverse effect on their performance.
- 6.2 The temperature rise shall not reach a value that there is a risk of injury to any insulating material or adjacent parts.

Annexure II-A

Declaration to be submitted by the bidder

We hereby agree to comply with all the clauses of the technical specifications as per Section-II and conditions of contract as per Section –I fully.

Signature of Bidder

Company Stamp

Date

OR

We offer the equipment complete with technical specifications as per section-II and conditions of contract as per section-I, except for the following deviations:

S. No.	Section / Cl. No.	Details of Deviation	Reason/justification for giving deviations	Amount in Rs if offer is made without deviation

Additional Sheets may be used, if required.

Signature of Bidder

Company Stamp

Date

** Strike out whatever is not applicable.



IRCON INTERNATIONAL LIMITED

(Govt. Of India Undertaking, Ministry of Railways)
C-4, District Centre, Saket, New Delhi – 110 017 (India).
Tel : 011- 29565666. Fax: 011- 26522000, 26854000

Invites sealed tender for Supply, Erection, Testing & Commissioning of following Equipment for Rail Coach Factory (RCF) Project at Lalganj near Rae – Bareilly in UP, India

S.No	Item	Tender No	Cost of Tender Doc - ument	Sale of Tender	Last Date of Tender Submission	Tender opening Date	Last date of request for tender document thru post	EMD/Bid Security
1	01 No. Portable Air Plasma Cutting Machine	IRCON/MECH/1029/ RCF RBL/PLASMA CUTTER/25 Dated 16.07.2010	Rs 1000/-	16/07/10	10/08/10 at 1530 hrs	10/08/10 at 1600 hrs	02/08/10	Rs 5000/-
2	01 No. Full Rake Car Test Rig and 01 No Single Coach Test Rig	IRCON/MECH/1029/ RCF RBL/TEST RIG/26 Dated 16.07.2010	Rs 1000/-	16/07/10	09/08/10 at 1530 hrs	09/08/10 at 1600 hrs	02/08/10	Rs 5000/-

For tender document by post additional Rs 200/- (to cover postal expenses)

For details visit our web site www.ircon.org

Corrigendum, if any, will not be published in the newspapers. Bidders are requested to visit our website regularly for any corrigendum(s).

AGM/Mechanical