NORTH EASTERN RAILWAY
(For M&P items)

Advertised Tender No 21/2008/5060/OT- 73/12
Date of opening of tender –20.06.2012
Cost of Tender Rs.-500/-
Earnest money Rs. -10,000/-
Closing time of tender 14.30 hrs. Opening time of tender 15.00 hrs

To,
The President of India,
Acting through the Controller of Stores,
N.E.Railway/ Gorakhpur.

Sir,

We hereby offer to supply the under noted item/items or part thereof at the price and within the period of delivery indicated below as per IRS conditions of contract and conditions of the tender and agree that in case I / We withdraw the tender before the decision & decline or fail to deposit Security money as per clause 12 of the tender after advice of acceptance, our earnest money deposited shall be forfeited to Govt. I / We shall not claim any interest on this sum while it is in your custody and shall be returned to me/us in case of non-acceptance. The offer is valid for **180** days from the date of opening.

Description: IGBT Inverter based Air cooled MIG/MAG Welding equipment cap.500 Amps(As per specification enclosed..	
Quantity : 01no. (One no.)	**Unit : 01 Each**
Consignee : CWM/NER/IZN-S.	
Quantity : 01no. (One no.)	
Rate : (In figure) : **(In words) :**	
Excise Duty :	
Sale tax :	
Packing Charge :	
Forwarding Charge :	
Freight :	**F.O.R :**
Other charges, if any(Pl specify) :	
Discount :	
Delivery Schedule:	
Inspection:	

I / We have carefully studied the Special Conditions of Tender attached.

Yours Faithfully,

Signature & Seal of the Tenderer.

NB:- Tenderer should furnish Para-wise technical compliance of tendered specification. The deviations from tendered specification, if any, should be clearly mentioned in the offer. Technical leaflet of quoted model should be attached along with the offer.

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Special Conditions of Tender for M&P item:-

1. Rate quoted should preferably be firm and final, Break up of rate i.e. Excise duty, Sales Tax, packing & forwarding charges & freight etc. shall be indicated separately. However in exceptional circumstances rates with guaranteed price variation clause (PVC) based on Government controlled price indices or price list of Central Government Public Sector Undertakings or IEEMA can be submitted. However, firm price offer may be preferred over the offer with PVC.
2. (a) In case where the consignees are more (say more than 4 or so),tenders are required to Quote for the FOR station of dispatch prices with an average freight for all consignees, which will be added to FOR station for dispatch price to get FOR destination prices.

   (b) In case where the consignees are four or less, tenders are required to quote FOR station of dispatch price with actual freight for each individual consignee, which will be added to FOR station of dispatch price to get FOR destination prices for each individual consignee.
3. In case any of the tenderers desire to quote packing & forwarding charges extra, the same should be quoted clearly & separately i.e. separately for packing charges and separately for forwarding charges. It should be noted that ED on forwarding charges is not payable by the purchaser. Therefore separate indication of packing and forwarding charges, as mentioned above, is necessary. If, however, any firm quotes combined packing and forwarding charges, then, for, the purpose of determining inters ranking of the offer, ED will be loaded on the combined packing and forwarding charges.
4. Tenderers shall quote their item-wise rate for 'concomitant accessories / essential spares' (Items as mentioned in the tender schedule), which are required to be supplied along with the equipment / machine for commissioning. The price evaluation of offer / inter se ranking will be based on the rate of equipment / machine along with such concomitant accessories / essential spares on FOR destination basis.
5. Tenderers shall quote their rates separately for 'optional recommended spares' of their machine / equipment. Railway shall have option to purchase or not to purchase the spares from such list which will be purely need based and therefore, their rate shall not be taken for evaluation of inter se ranking of offer and shall be evaluated separately.
6. **Deleted**
7. Tenderers who are OEM ,must give undertaking for supply of spare parts for a period of expected life of the machine /equipment. Other tenderers must submit undertaking from OEM for supply of spare parts for a period of expected life of the machine/equipment.
8. Warranty period for M&P will be 24(twenty four) months from the date of commissioning and proving out of M&P. A maximum period of 2(two) weeks will be allowed for attending and rectification of faults during the warranty period.

   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.
9. Purchase shall be made from the manufacturer or their authorized dealer / agent. Name, Address & Fax numbers of the manufacturer should be mentioned and valid manufacturer's authorization, in case of dealer / authorized agent, should be submitted along with the offer, failing which the offer is liable to be ignored.

   If any Indian agent quotes for any imported product, they should submit Principal's proforma invoice along with their offer, failing which the offer is liable to be ignored
10. Railway reserves the right to purchase from reliable and established manufacturers or their authorized agents / dealers. Tenderers are requested to furnish the satisfactory proof of their capacity / capability along with the list of the M&P and performance statement giving copies of orders executed by them for the item during the last three years. Tenderer not submitting these requisite information may note that their offer is liable to be ignored.
11. Tenderers, if registered in the N. E. Railway, should mention the registration No., trade group, monetary limit and validity of registration. SSI unit, if registered with NSIC, should mention the registration particulars and enclose a copy of current registration certificate along with offer. In case of non-submission of these information/ documents, it shall be considered that they are not registered with N. E. Railway / NSIC.

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12. **Earnest Money & Security deposit**

12.1 Earnest money :- The Earnest money mentioned in the tender schedule is required to be deposited by the tenderer along with their offer, other wise the offer will be summarily rejected, however exemption to deposit earnest money given to firm as under:-

(a) Vendors registered with NSIC up to monetary limit of their registration for the items tendered.

(b) Vendors registered with Railways up to the monetary limit of their registration for the items tendered / trade group of the item tendered.

(c) Vendors on approved list of RDSO / Pus / CORE/Railways etc. for those specific items for which they are on appd. List.

(d) Manufacturers and their accredited agents.

(e) Other Railways, Govt. Departments.

12.2. **Security deposit :-** The firm shall deposit security money @5% of total value of contract subject to max. of Rs. 100000/- as security for the proper fulfillment of the contract, failing which their offer will be ignored. However exemptions shall be given to Firm' as under:-

(a) Vendors registered with NSIC up to the monetary limit of their registration for items ordered.

(b) Vendors registered with Railways up to the monetary limit of their registration for the items ordered / trade groups of items ordered or vendors on approved list of RDSO / Pus / CORE / Railways etc. for those specific items for which they are on approved list or other Railways, Govt. Departments on their specific request and on merits of the case as considered by tender committee.

13. Payment term:- 80% of the payment on proof of inspection certificate and Rail/Road Challan to be made within 30 days of receipt of documents as specified. Balance 20% payment within 90 days after satisfactory installation/ commissioning and proving test of M&P subject to submission of bank guarantee/FDR/DD for an amount of 10% of contract value, as warranty security.

    In exceptional circumstances for low value machines - 90% payment shall be released by paying authority against inspection certificate and receipted challan signed by gazetted officer of indentor for correct receipt of material in good condition at site and balance 10% payment shall be released after successful installation / commissioning and proving out of the machine by the indentor and submission of Bank Guarantee /FDR/DD of 10% of contract value for warranty obligations. Charges for installation and commissioning if any, shall be released only after successful installation / commissioning and prove out of the machine by the indentor.

14. The BG shall remain valid for 30 months from the date of commissoning which will include 24 smonths warranty period and 6 months claim period. The Bank Guarantee shall be released only after satisfactory performance of machine for a period of 24 months from the date of commissioning of the machine.

15. IRS conditions of contract shall be applicable

16. If ED / CST / ST / Other statutory levies are being charged extra, then tenderers should clearly indicate exact rate of the Levies / Taxes applicable. Whenever any tenderer quotes concessional rate of ED / CST / ST / Other statutory levies and at the same time reserves their rights to claim ED / CST / ST / Other statutory levies at the rate applicable during the time of supply through statutory variation clause, their offer will be loaded with maximum rate of ED / CST / ST / Other statutory levies applicable at the time of tender opening and / or as quoted , by any of the tenderer participated in the said tender.

    If excise duty varies, based on the turn over, the tenderer should indicate the maximum rate of excise duty payable. If Excise duty is not claimed in the offer and no mention is made about either ED or statutory variation , no ED will be payable. If excise duty is claimed in the offer and statutory variation is also claimed by the tenderer in the -offer, the same will be agreed to. In no case, variation in excise duty due to increase in turn over during the currency of the contract will be admissible. If tenderers misclassify the goods under relevant excise tariff rules, Railway will not pay increased excise duty due to misclassification. Excise duty will be paid subject to documentary evidence only.

17. MODVAT: Tenderers should furnish clear MODVAT declaration stating that they have taken into account all the MODVAT benefits while quoting against the tender.

18. Tenderers should furnish Para-wise technical compliance of tendered specification. The deviations from tendered specification, if any, should be clearly mentioned in the offer.

19. Tenderers are requested to give their current bank account No.,Banker's name & address and code no. in their tender to facilitate prompt payment.

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20. Tenderers are required to quote their rates in Indian currency only.& Inspection of M&P items will carried by M/s RITES. Insurance upto ultimate consignee must be ensured.
21. Penalties:- In case of failure on the part of the contract, liquidated damages shall be levied on the contractor as under:-

    (A) In the event of contractors' failure to have M&P commissioned by the time or times respectively specified in the letter of acceptance or contract, purchaser may withhold, deduct or recover from the contractor as penalty, a sum @ 2%(two percent) of the price of M&P which the contractor has failed to commission as aforesaid for each and every month (part of a month being treated as a full month) during which the M & P may not have been commissioned , subject to upper limit of 10%(ten percent) of contract value.

    (B) Penalty of 0.5% (Zero point five percent) per week of the 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. Maximum penalty to be levied on account of warranty failure will be 5%(Five percent) of the contract value calculated during whole of warrantee period and after that if there is any delay on the part of supplier, purchaser shall be entitled for encashment of WG Bonds. In such cases the bad performance of firm during the warranty period, the same will be recorded and circulated to all Railways. The same will 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.
22. If tenderer downloads the tender document from INTERNET, they should submit offer along with the requisite cost of the tender by demand draft / bank draft, in favour of FA & CAO / N. E. Railway / Gorakhpur, otherwise their offer shall be summarily rejected. The firm submitting their offer should give a certificate that the downloaded bid document submitted along with their offer, does not contain any change or modification i.e. it is verbatim same as appearing in NER`s website. If later on it is found that the tenderer has made any change or modification in the downloaded tender documents, their offer is liable to be rejected along with other penal action as stipulated in para 23 below.
23. In case any tenderer is found to be indulging in changing / adding or deleting the contents of the tender documents downloaded from Internet, the tenderer will be liable to face necessary action as per extant instructions which could be removal from the approved list, banning, suspension of the business dealing etc.
24. RDSO Clause (Applicable/Not Applicable) : Applicable.

    For items which are reserved to be procured from the RDSO/Railway's approved sources only, following conditions will also be applicable:-

    Railway reserves the right to purchase Full / Bulk quantity from RDSO approved firms only. RDSO approved firms must furnish current RDSO approval certificate for the tendered item and failure to comply will mean their offers are liable to be ignored. Exceptions to this may only be done if the current (on date of Tender opening), RDSO approved status is already available with the purchaser.

    a)Purchaser reserves right to place 15% of the tendered quantity order on Part –II approved sources or the highest quantity of previous order executed in the preceding 3 years in any Railway/Production Unit whichever is higher subject to maximum of 25% of the net procurable quantity in the given procurement case. Thus, all part II approved tenderes are therefore requested to submit the attested Xerox copies of documents showing the proof of successfully executed orders by them in any single order placed on them over preceding three years by Zonal Railways/Production Units and to note that non submission of such documents shall be taken as their not having any such past performance, hence their offers shall be considered further as per extent rules and no back reference in this regard will be made to them.

    b) Wherever all or most of the approved sources quote equal rates and cartel formation is suspected, Railway reserves the right to place order on one or more firms with exclusion of the rest with out assigning any reasons thereof.

    c)Firms are expected to quote for a quantity not less than 50% of the tender quantity. Offer for quantity less than 50% of the tender quantity will be considered unresponsive and liable to be rejected in case cartel formation is suspect. Railway, however, reserves the right to award contract on one or more firms for any quantity.

    d)The firms quoting in cartel are warned that their names are likely to be deleted from the list of approved sources.

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e)Railway reserves the right to exercise their discretion to consider unapproved / Part-II sources for supply of bulk quantity as deemed fit.

25. Offers not submitted in/along with prescribed tender documents of North Eastern Railway dully filled in and signed by appropriate authority on their behalf **WILL BE LIABLE TO BE REJECTED**. Offers submitted in downloaded tender documents without remitting its cost **WILL BE SUMMARILY REJECTED.**
26. Bid documents of all advertised tenders of North Eastern Railway for supply of stores areavailable on the North Eastern Railway's website, viz. www.nerailway.gov.in. & www.tenders.gov.in Bid documents can also be obtained from the office of the Controller of Stores, North Eastern Railway, Gorakhpur-273012 and Assistant Material Manager, N.E. Railway, 161, B.B.Ganguly Street, Kolkata-700012 on production of the money receipt for depositing the cost of tender documents.
27. NSIC firms, registered for the tendered item, are exempted from paying the tender cost. However, they are required to submit their offer with the prescribed tender documents and valid NSIC certificate, failing which THEIR OFFER WILL LIABLE TO BE REJECTED.
28. Tenderer to given consent in a mandate from for receipt of payment through EFT.
29. Tenderer to provide the details will include Bank Name, Branch Name & address, Account type, Bank Account No. and Bank Branch Code as appearing on MICR cheque issued by Bank.
30. Tenderer to attach certificate from their Bank certifying the correctness of all above mentioned informations (as mentioned in para 29 above).
31. In case of non payment through EFT or where EFT facility is not available, payment will be released through cheque.
32. Delivery schedule : 4 Months
33. Inspection Clause: RITES / Consignee
34. VAT CONDITIONS:-

    i) The Tenderer should quote the exact percentage of VAT that they will be charging extra.

    ii) While quoting the Rates, Tenderer should pass on (by way of reduction in prices) the set off / Input tax credit that would become available to them by switching over to the system of VAT from the existing system of Sales Tax, duty stating the quantum of such credit per unit of the item quoted for.

    iii) The Tenderer while quoting for Tenders should give the following declaration:- " We agree to pass on such additional set off / Input tax credit as may become available in future in respect of all the inputs used in the manufacture of the final product on the date of supply under the VAT scheme by way of reduction in price and advise the purchaser accordingly".

    iv) The suppliers while claiming the payment will furnish the following certificate to the paying authorities : "We hereby declare that additional set offs / input tax credit to the tune of Rs..... has accrued and accordingly the sameis being passed on to the purchaser and to that effect the payable amount may be adjusted".

    v) For the states in which the VAT has not yet been introduced, the existing system of sales tax shall continue.

    35 . In case of any deference between the OT Tender booklet and above special conditions, the latter shall prevail.
36. Special Condition:

A. Item Description : **IGBT INVERTER BASED AIR COOLED MIG/ PULSED MIG/MMA WELDING EQUIPMENT CAP. 500 AMPS.**

B.TECHNICAL SPECIFICATION :

1.Power Source:

1.1.	Mains Voltage	:	400 V ± 10%, 3 Ph 50 Hz
1.2	Input Current	:	39 A at max. load in MIG
1.3	No load / Open circuit power	:	60 W or less
1.4	Open circuit voltage (MIG/MAG)	:	72-88 V
1.5.	Open circuit voltage(MMA)	:	68-80 V
1.6.	Welding current range (MIG/MAG)	:	16-500A
1.7	Welding current range (MMA)	:	16-500A
1.8	Max. welding Current(MIG/MAG, MMA)	:	500 A
1.9	Welding current @ 60% duty cycle	:	500 A
1.10	Welding current @100% duty cycle	:	400 A
1.11.	Power factor (and not Cos)	:	0.85 at max. load
1.12.	Efficiency at max. current	:	86%
1.13.	Insulation class of transformer	:	H
1.14.	Enclosure class	:	IP23
1.15.	Application class	:	S
1.16.	Operating temp.	:	-10^0 C to $+40^0$ C
1.17	Continual A-weighted sound pressure	:	75 dB
1.18.	Dimensions, L x W x H, mm(Max.)	:	630 x 400 x 500
1.19.	Weight (Kg.)	:	66
1.20.	Standard of compliance	:	IEC/EN 60974-1,IEC/EN 60974-10

1.21 The power source should be inverter based and should be manufactured maintaining the highest level of international standards.

1.22 The power source should be have excellent welding characteristics and should be capable of doing all position welding on high alloyed materials.

1.23 The power source should support multiple welding processes including MIG and MMA.

1.24 The design of the power source should be based on inverter IGBT technology for best quality of welding performance.

1.25 The communication and control of the power source should be based on CAN bus system to reduce the number of cables and increase the operational reliability.

1.26 The power source should be capable of providing the accurate arc voltage independent of the length of the connection cable return cable or welding gun.

1.27 The class of insulation provided for the main transformer of the welding power source should be class “H” .

1.28 The power source should be designed to operate in the temperature range of -10^0 C to + 40^0 C and that welding output should not vary during the entire range.

1.29 The power source should have robust construction and the chassis should be made of aluminum to prevent rust and withstand rough site conditions.

1.30 The class of enclosure provided to prevent the ingress of dust and water should be minimum IP23

1.31 Dust filter should be provided to handle tough and dirty environment and to avoid grinding dust and metal particles inside the chassis of the power source.

1.32 The equipment should be certified as Application class 'S' for suitability of use in the areas with increased electrical hazard.

1.33 The equipment should be manufactured maintaining the international standard and should comply with IEC/EN 60974-1 and IEC/EN 60974 -10.

2. WIRE FEEDER :

2.1.	Power Supply	:	42 V AC,50 Hz
2.2.	Motor Current	:	8 A
2.3.	Power requirement	:	336 VA
2.4.	Wire feed speed	:	0.8-25 m/min
2.5	Welding gun connection	:	EURO
2.6.	Max. dia meter of wire bobbin	:	300 mm
2.7.	Wire dimension	:	0.6-1.6 mm
2.8.	Enclosure class	:	IP23
2.9.	Dimension LxWxH	:	700x290x430
2.10.	Weight alongwith bobbin carrier	:	17.5 Kg.
2.11.	Standards of compliance	:	EN 60974-5

3. WIRE FEEDER / CONTROL PANNEL :

3.1 The wire feeder should have sturdy design and should be made of galvanized metal to withstand tough working environment.

3.2 The length of inter connecting cables between the power source and wire feeder should be minimum 10 mtrs. Long.

3.3 The wire feeding should be controlled electronically to provide accurate and stable arc.

3.4 The wire feeder should be operate on low voltage (42V,AC) and should be provided with overload protection circuit to eliminate breakdown.

3.5 The wire feeder should have 4 roll drives with grooves in the both feed roll and pressure roll to give stable feeding and low wear on the wire and smooth operation.

3.6 The wire feeder should have capable of handling different grades of steel /Al/cored wire with wire diameter ranging between 0.6-1.6mm.

3.7 The wire feeder should be capable of 2 stroke /4 stroke operation.

3.8 It should have provisions for creep start gas pre flow and hot start for a soft and more direct start with minimum spatter.

3.9 It should have gas purging and wire inching options.

3.10 It should have provision Crater filling , adjustable burn back time and gas post flow for smooth finish and to increase the lifetime of the wear parts.

3.11 It should have provision for pre programmed synergic lines to ensure optimum setting with wide choice of materials wire dimensions and gas combinations.

3.12 There should also be provisions for to create user defined synergic lines.

3.13 It should have memory to record upto 225 welding parameter sets.

3.14 The wire feeder should have digital control panel mounted on it and keypads should be provided to select the require operation from the menu.

3.15 The wire feeder should conform to international standard IEC60974-5.

3. TECHNICALDETAILS –MMC/ CONTROL PANEL :

a. MIG / MAG WELDING WITH DIP /SPRAY.

I.	Voltage	:	8-60 V
ii.	Wire Speed	:	0.8-25 m/min
ii.	Inductance	:	0-100%
iv.	Control Type	:	1-12
v.	Synergic mode	:	OFF or ON
vi.	Gas pre flow	:	0.1-25 sec.
vii.	Creep Start	:	No or Yes
viii.	Hot start	:	No or Yes
ix.	Hot Start time	:	0-10 sec.
x.	Hot start wire speed	:	Complete wire feed range (0.8-25 m/min.)
xi.	Hot start voltage	:	Complete voltage range (8.0-60.0 V.)
xii.	Crater filling	:	NO or YES
xiii.	Crater fill time	:	0-10 sec.
xiv.	Final crater filling wire speed	:	1.5m/ min to current wire feed speed
xv.	Final crater filling Voltage	;	8V to actual voltage
xvi.	Pinch off pulse	:	10-120%
xvii.	Burn back time	:	0-1 sec.
xviii.	Gas Post flow	:	0.1-25 sec.
xix.	Limits	:	1-50
xx.	Spot welding	:	OFF or ON
xxi.	Spot Welding time	:	0-25 sec.

b. MIG/MAG Welding with Pulsing

i.	Voltage	:	10-50V
ii.	Wire speed	:	0.8-25 m/min
iii.	Pulse current	:	100-600 A
iv.	Pulse time	:	1.7-25.5 ms.
v.	Pulse frequency	:	36-312 Hz
vi.	Back ground current	:	16-300 A
vii.	Slope	:	1-9
viii.	Ka	:	0-100%
ix.	Ki	:	0-100%
x.	Synergic mode	:	OFF or ON
xi.	Gas pre flow	:	0.1-25 sec.
xii.	Creep start	:	No or Yes
xiii.	Hot start	:	No or Yes
xiv.	Hot Start time	:	0-10sec.
xv.	Hot start wire speed		
xvi.	Hot start Voltage	:	Complete voltage rang (8.0-60.0v)
xvii.	Crater filling	:	No, Non Pulsed or Pulsed
xviii.	Crater fill time	:	0-10 sec.
xix.	Final crater filling wire speed	:	1.5m/min to current wire feed speed
xx.	Final crater filling voltage	:	8V to actual voltage

xxi.	Final crater filling pulse current	:	100 A to actual pulse current.
xxii.	Final crater filling background current	:	12 A to actual background current
xxiii.	Final crater filling frequency	:	20Hz to actual frequency
xxiv.	Burn back time	:	0-1 sec.
xv.	Gas post flow	:	0.1-25 sec.
xvi.	Limits	:	1-50
xvii.	Spot welding	:	OFF or ON
xviii.	Spot welding time	:	0-25 sec.

c. <u>MMA Welding :</u>

i.	Current	:	16-500 A
ii.	Synergic mode	:	OFF or ON
iii.	Electrode type	:	Basic Rutile or Cellulose
iv.	Arc force	:	0-100 %
v.	Min current factor	:	0-100 %

5.<u>TECHNICAL DETAILS MIG TORCH :</u>

i.	Type of the torch	:	Push in type integrated torch
ii.	Type of Cooling	:	Air Cooled
iii.	Cable construction	:	Co-axial type with EURO connection
iv.	Type of torch neck	:	swan neck with 50 deg bend and 360 deg. rotation facility.
v.	Wire diameter capabilities mm	:	1.0-2.4
vi.	Max. welding current A	:	500
vii.	Length of the torch hose, m	:	3.0
viii.	Weight of the torch, kg (Max.)	:	4.0
ix.	Standard of compliance	;	EN 60974-7

x. The torch should have push in type integrated construction to provide higher flexibility during welding.

xi. The torch should have interchangeable type neck assembly in order for the operator to use longer neck assembly.

xii. The torch should have be designed to provide the accurate arc. Voltage independent of the length of the connection cable, return cable or the hose length of the torch.

xiii. The torch should have high quality nozzle insulator for higher service life of the torch

xiv. The handle of the torch should be ergonomically designed to provide operational comfort to the welder.

xv. The MIG torch should comply with international standard IEC60974-7.

[K.THAKUR]AMM/DSL
FOR C O S