

AIRPORTS AUTHORITY OF INDIA

CIVIL AIRPORT, JAMMU.



NIQ DOCUMENT

Date: 04-05-2018

Name of work: Supply, Installation, Testing and commissioning of Chemical Earthings for Nav-aids site (Localizer site at Beli charana, Jammu) at AAI, Civil Airport, Jammu-180003.

Deputy General Manager (CNS)

O/O-AIRPORT DIRECTOR

AIRPORTS AUTHORITY OF INDIA

CIVIL AIRPORT, JAMMU

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NOTICE INVITING QUOTATION

Ref. No: AAI/VIJU/CNS/NAV-AIDS/2018/Proc./2

Subject: SITC of Chemical Earthing systems at Civil Airport, Jammu.

Date: 04.05.2018

Sealed quotations are invited by **Deputy. General Manager (CNS), Airports Authority of India, Civil Airport, Jammu** for **“Supply, Installation, Testing & Commissioning of Chemical Earthing Systems”**. The sealed envelope containing quotation should be superscribed **“NIQ for SITC of Chemical Earthing Systems at Jammu Airport”** due to be opened on 15.05.2018.

Last date and time of receipt of quotations: 14.05.2018 up to **1430 IST**

Date and time of opening of Technical bid: 15.05.2018 at **1500 IST**

Estimated cost: Rs. 1,96,800.00(One lakh Ninety-Six Thousands Eight Hundred only)

Schedule of Critical Dates:

Sl. No	Activity	Date	Time in IST	Remarks
1	Last date and Time of Receipt of quotations.	14-05-2018	14:30	
2	Date and time of opening of Technical Bid	15-05-2018	15.00	
3	Date and time of opening of Price Bid	Price Bid shall be opened after scrutiny of the documents submitted in Technical Bid. Quotations qualified in the Technical Bid only will be considered for the Price Bid. Opening of Price bid will be intimated later to the eligible bidder.		

The Scope of Work:

The scope of work is Supply, Installation, Testing & Commissioning of Six (6) numbers of Chemical Earthing systems at Nav-aids site (Localizer site at Beli charana, Jammu) in Civil Airport, Jammu. The work includes

1. Supply of earthing material for six earthing systems (Earth Rods, ground fill material & copper strip - Technical Specifications are mentioned in Annex A)
2. Installation of earth pits & inspection chambers: A bore of Minimum 10-inch diameter must be excavated and Earth electrode must be placed in the center around which back fill material must be filled as per OEM standard.
3. Connection of earthing system to the existing termination using copper strip.
4. Measurement of earth resistance post installation.

All the works related to the above must be carried out by the vendor as per the specifications mentioned in Annex A.

Terms and Conditions:

1. The quotation should be submitted in two parts, **Envelope-A (Technical Bid)** and **Envelope-B (Price Bid)**, each envelope super scribed “Technical Bid” and “Price Bid” respectively. Both the envelopes should be sealed and put inside the **Master envelope** and should be sealed properly.

The Master envelope should be super scribed” **NIQ for SITC of Chemical Earthing Systems at Jammu Airport**” due to be opened on 15.05.2018 at 15:00.

**Deputy General Manager (CNS)
O/o-AIRPORT DIRECTOR
AIRPORTS AUTHORITY OF INDIA
CIVIL AIRPORT, JAMMU- 180003.**

2. Quotations submitted in any other format will be rejected.
3. Quotation will be opened on 15 -05 -2018 at 15:00 Hrs. by a Committee constituted by Airport Director, AIRPORTS AUTHORITY OF INDIA, CIVIL AIRPORT, JAMMU and interested bidders may also participate either themselves or their authorized representatives. No separate intimation will be issued for this. Envelope “B” which shall be opened after scrutiny of the basic documents of envelope “A” completion.

4. 4.1 Technical Bid: (Envelope-A)

The “Technical Bid” should contain only the documents as per details mentioned below. **The price must not be written in this bid.**

The envelope sealed and super scribed ‘Technical Bid’ should contain: -

- a. Technical compliance statement (Annexure – A) duly filled and signed by the bidder. The submission of compliance statement as described above is essential for evaluation.
- b. Unconditional acceptance of AAI terms and conditions on the company’s letter head (Annexure- B) - duly signed by the Bidder.
- c. Self-attested Copy of valid GSTIN and PAN.
- d. The vendors should have successfully completed one work of Earthing System value equal to 80% or more of the estimated cost or two separate works, each of a value equal to or more than 50% of the estimated cost or three separate Work Orders, each for a value equal to or more than 40% of the estimated cost in last 7 years, for Government Departments or Public Sector Undertakings or Private sectors (with in India). **Certification of satisfactory completion with complete detail of work carried out shall be submitted.**
- e. Copy of NIQ duly signed on each page.

4.2 Price Bid: (Envelope-B)

- a. It may be clearly understood and noted that the 'Price Bid' document is for pricing alone. No condition, whatsoever, should be stipulated in this part. Everything the Bidder has to say, other than pricing, should be stated only in the Technical bid. Any Conditional bid is liable to be rejected.
 - b. The Envelope –B sealed and super scribed "Price Bid" should contain the price of the offer in the prescribed format given in Annexure-III.
 - c. No additional payment will be made other than quoted amount.
 - d. The bidder shall quote the rates in English language and international numerals. The rates shall be in whole numbers. The rates shall be written in both figures as well as in words (in Rupees). In the event of any discrepancy, the price quoted in words will be taken as the correct basis. In case of any ambiguity, all calculations will be carried out taking unit rate as the base.
 - e. Price should be inclusive of all taxes and levies, packing, transporting, delivery, insurance & Installation. No extra payment will be made other than quoted amount.
5. Documentary proof in form of literature/ pamphlet/ lab reports/manual/brochure of the product to substantiate the compliance to AAI specification as per Annex-A shall be submitted by the bidder unconditionally, if required/demanded by Airports Authority of India at any stage of the work or during tendering process.
- 6 Bidders are requested to quote their rates accepting AAI tender's terms and conditions in its entirety and they are not permitted to put any remarks/conditions. In case a Bidder submit a conditional quotation/offer i.e. quotation/offer with some conditions which contradict with AAI Terms & Conditions, his quotation/ offer will be rejected without mentioning any reasons and no correspondence will be made in this regard.
7. The Specifications of the SITC of **Chemical Earthing System (Earth Electrode and Back fill material), Copper strip & inspection chamber** are mentioned in Annex A.
8. The validity of quotation should be for a minimum period of 90 days.
9. In-complete and ambiguous quotations will be rejected.
10. Delivery & Installation period within 30 days from the date of supply order received.
11. These items to be supplied are of operational necessity and hence the supply period as per contract shall be adhered to strictly. However, in case of extraordinary situations which may delay the supply, the successful bidder shall apply for extension of time in writing.
12. **Guarantee/Defects Liability Period**
Period Guarantee/Defects Liability Period will be **one year** or the warranty period given by manufacturer, whichever is more from the date of commissioning. During this period, the supplier shall attend and rectify the defects/problems arising due to design or installation at their own cost within a day of complaint.

13. **Liquidated damages:**

i). If the successful bidder fails to complete the supply / work within time fixed under the contract, he shall pay to the AAI without prejudice to any other rights or remedy as may be available to the purchaser, a liquidated damages amount calculated @0.5% of the total value per week or part thereof subject to a maximum value equal to the value of the 5% of total value of order.

ii). The amount of liquidated damages for delay and waiver of liquidated damages for delay in case of justified reasons shall be decided at the discretion of Accepting Authority and the same shall be final and binding on the contractor. Time taken by AAI and local statutory authorities for approval and any other reasons beyond control of the contractor shall be considered as justified reasons. The amount of compensation may be adjusted or set off against any sum payable to the contractor under this or any other contract with AAI.

iii). Appeal for waiver of compensation for delay with due justification shall be decided as per the provisions of Airports Authority of India. The decision of the competent authority on appeal shall be final and binding on the contractor.

14. AAI will not be responsible for any delay in submission of quotations sent by post/courier.

15. Quotations once submitted shall be final and no amendment shall be permitted. A Bidder shall submit only one bid.

16. AAI reserves the right to accept/reject any quotation without assigning any reason.

17. **Arbitration and Laws:**

All disputes and differences arising out of or in any way touching or concerning this contract (except where otherwise provided for in the contract) shall be referred to the arbitration of the Airport Director, AAI, Civil Airport, Jammu. The award of the Arbitrator shall be final and binding on both the parties. It will be no bar if the Arbitrator appointed as aforesaid is or has been an employee of the Authority and the appointment of the Arbitrator will not be challenged or be open to question in any Court of Law, on this account.

18. **Effect and Jurisdiction of Contract:**

The contract shall be considered as having come in to force from the date of issue of letter of the award of the contract by AAI. The law applicable to this contract shall be the law enforced in Jammu and Kashmir. The courts in Jammu shall have the exclusive jurisdiction in all matters arising under this contract.

19. **Taxes, Permits & Licenses:**

The successful bidders shall be responsible for payment of all Indian duties, levies and taxes lawfully assessed against the successful bidder for his personal income and property only. AAI shall have the right to deduct such taxes, duties at source, if liable to do so under Indian Law.

20. Payment terms:
- a) Payment shall be made after SITC and duly certified by site in-charge.
 - b) Payment shall be made through RTGS/NEFT.
 - c) Invoice should be in favor of Airports Authority of India and may be submitted to Deputy General Manager (CNS), O/o-Airport Director, Airports Authority of India, Civil Airport, and Jammu- 180003.
 - d) Bank details (as per Annexure –D) and Cancelled cheque (of the same account) of bidder should be submitted along with invoice for online payment through RTGS/NEFT.
 - e) **GST No. of both, bidder and Airports Authority of India should be mentioned in the invoice. Airports Authority of India GST No.-01AAACA6412D1ZM.**
21. Airport Entry Pass: -Bidder has to make valid Airport entry pass at own cost, if required.

Deputy General Manager (CNS),
Jammu Airport.

Annexure – A
(To be provided on company's letter head)
Technical specifications for Chemical Earthing Systems at Jammu Airport

S. No	Description	Requirement	Complied/ Not Complied
Earth Electrode			
1	Size of Earth Electrode	Diameter: 17.2 mm dia. Length: 10 feet (3 Meter)	
2	Material	(a) Copper bonded steel rod made of high tensile low carbon steel with copper bonding thickness not less than 250 microns and steel core 600MPa. (b) Copper jacket should not crack on bending of earth rod. (c) Copper: 99.9% pure electrolytic copper.	
3	Identification	Length, Diameter & Company name must be stamped in the rod	
4	Corrosion Resistance	The Earth electrode shall not be corroded due to the water & other components of soil	
5	Electrical resistance	The earth electrode should provide the lowest possible resistance to ground and able to carry a minimum short time current of 15KA for one second.	
6	Miscellaneous	(a) Couplers should be made of brass. (b) Clamps should be made of brass or stainless steel. (c) Driving head or striker head should be of high tensile steel. (d) Driving tip should be of mild steel.	
<u>NOTE: Ref.- IS-3043 & IEC-60364 where use of such electrodes are permitted.</u>			
Ground Fill Material			
1	Conductivity	It should be highly conductive between earth electrode & ground contact area and shall not depend on moisture/salt for conduction.	
2	Thermal Conductivity	The Ground fill material should be stable between -60° to +60°.	
3	Corrosion	It shall be non-corrosive and having low solubility (0.2 % max)	
4	Stability	The ground fill material shall be permanent and maintenance free requiring no recharge with salts or chemicals.	
5	Earth Resistance of Pit	It shall be ensured that the earth resistance of the pit shall not be more than 2 Ohms. It shall be measured by an approved earth testing apparatus for individual earth pits after completion of installation.	
6	Quantity	Ground fill material must be filled as per the OEM standard for minimum of 20Kg/earth pit	
7	Miscellaneous	(a) Material should be non-polluting and safe for use near potable ground water system. (b) Material shall contain a corrosion inhibitor to mitigate corrosion of copper. (c) Material should not contain hazardous chemicals.	
<u>NOTE:- Ref – BS 7430 & IEEE80 where use of Carbon backfill compound for obtaining low resistance and maintenance free earthing is clearly recommended under specific conditions</u>			

Technical specification for Chemical Earthing Systems at Jammu Airport			Complied/ Not Complied
Copper Strip			
1	Dimension	Width: 25 mm, Thickness: 3 mm Length: 10 Meter per Earth Pit	
2	Purity	Purity of copper shall not be less than 90%.	
3	Connection	The copper strip must be connected between the earth rod in the inspection chamber and the existing earthing termination at the wall and must be routed in a depth of one feet underground . Stainless steel U shaped bolts with copper rods must be used for connection wherever required.	
Earth Inspection chamber			
1	Dimension	Length: 300mm, Breadth: 300mm, Depth: 300 mm	
2	Material	Concrete (or) prefabricated Inspection chamber of same dimension.	
2	Steel Lid	Over the inspection chamber, a concrete lid painted in black (approx. thickness 50mm) should be provided with handle.	
3	Identification	(a) On the top of the lid, name of installation, date of testing & measured earth resistance values must be painted in yellow in black background. (b) Care should be taken regarding level of the floor surrounding the earth so that the connector is not too deep the masonry or projecting out of it.	

Signature of bidder

Seal of firm

UNCONDITIONAL ACCEPTANCE OF AAI'S TERMS & CONDITIONS

(To be provided on company's letter head)

To

Deputy General Manager (CNS),
O/o-AIRPORT DIRECTOR,
AIRPORTS AUTHORITY OF INDIA,
CIVIL AIRPORT, JAMMU-180003.

Sir,

1. The Notice Inviting Quotation (NIQ) Supply, Installation/Replacement, Testing and Commissioning of Chemical Earthing for Nav-aids site(Localizer site at Beli charana, Jammu) at AAI, Civil Airport, Jammu- 180003 has been provided to me/us by Airports Authority of India and I/we hereby certify that I/we have inspected the sites and read the entire terms and conditions of the NIQ made available to me/us, which shall form part of the contract agreement and I/we shall abide by the conditions/Clauses contained therein.
2. I/We hereby unconditionally accept the NIQ conditions of AAI in NIQ documents in its entirety for Supply, installation/replacement, Testing and commissioning of Chemical Earthings for Nav-aids site (Localizer site at Beli charana, Jammu) at AAI, Civil Airport, Jammu- 180003.
3. The contents of NIQ have been noted wherein it is clarified that after unconditionally accepting the NIQ conditions in its entirety it is not permissible to put any remarks/ conditions (except unconditional rebate on the quoted rates if any) in the NIQ.
4. That, I have not paid and will not pay any bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills.
5. That if any officer of AAI asks for bribe/gratification, I will immediately report it to the appropriate authority in AAI.

Yours faithfully,

Date: -

(Signature of the bidder with Rubber Stamp)

PRICE BID

(To be put in ENVELOPE-B)

AAI NIQ RefNo: -----

Dated: -----

Name of the work: NIQ for SITC of Chemical Earthings for Nav-aids site (Localizer site at Beli charana, Jammu) at AAI, Civil Airport, Jammu- 180003.

- 1. Name and address of the bidder: -
- 2. Status of the Bidder (Proprietary/Partnership/Individual): -
- 3. Name of the Proprietor/Partner

Sr.n o.	Description of Items	Unit	Qty. (A)	Unit Rate in Rs. (B)	GST Amount in Rs.(C)	Cost of Each in Rs. D=B+C	Total Amount in Rs. E = A X D
1.	SITC of Chemical Earthing systems as per the specifications mentioned in Annex A and Scope of work.	Each	06				

*Applicable GST Rate (in Percentage) _____

NOTE 1: Form C & D for concessional duty shall not be acceptable for AAI for exemption or reduction in Govt. Duties.

NOTE 2: Use of erasure, over writing and or corrections in the price Bid should be avoided. However, in case it becomes unavoidable to use any of these for correction, the same must be authenticated by the person signing the bid with his signature.

NOTE 3: Change in nomenclature of schedule and added optional items in this schedule attract action as per AAI terms and conditions

NOTE 4: The rates should be inclusive of all taxes such as CGST, SGST, and IGST etc.

NOTE 5: In case of any ambiguity in total unit price or total amount figures or non-adherence to Note 4, all calculations will be carried out taking Basic Unit rate (in words) as base.

*: - Please fill up applicable GST Rate.

I / We agree to all terms and conditions and Note above.

Date:

Place:

Signature of the Bidder
&
Office Seal

E-Payment details

1	Name of the Company:	
2	STREET (ADDRESS)	
3	House Number	
4	Postal Code	
5	City	
6	Telephone No	
7	Fax no	
8	Mobile No	
9	Email	
10	PAN Number	
11	Bank A/c Number	
12	A/c holder name	
13	Name of Bank	
14	House number and Street	
15	City	
16	SWIFT Code	
17	Method of Payment	
18	RTGS/NEFTdetails(IFSCCodeofBankBranch)	
19	Duly cancelled Bank A/C cheque	

(Authorized Signatory)

Note: Any erroneous information may lead to harmful transaction for which either AAI or the Bank will not be liable / responsible.

Declaration- 1

(To be provided on company's letter head)

By the Contractor/ Tenderer:

I/We hereby declare –

- i) I/We are registered under GST and compliant of GST provision.
- ii) In case of non- compliance of GST provisions and blockage of any input credit, I/we shall be indemnify AAI.
- iii) That all input credits have been passed on to AAI by us (bidder).

Signature of Tenderer: _____

Name: _____

Date: _____

Seal:

E-mail address: