



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

(A Govt. of Rajasthan undertaking)

Directorate of Operations & Systems

3<sup>rd</sup> Floor, Administrative Building, Bhriugu Path, Mansarovar, Jaipur- 302020

Tel. No. 0141-2822103 (O), E-mail – jmrc.edtem@gmail.com



**F.No. 2(90)/JMRC/O&S/TEM/2018/repairing of Battery Charger/5936**

**Dated: 28.08.2018**

To,

**M/s Statcon Energia Pvt. Ltd.**

**B-81, Sector 63 Noida**

**G.B. Nagar 201307(UP)**

**Sub: Repairing/Serviceing of Statcon Make Battery Charger installed at various stations and depot of JMRC (Phase 1A).**

Sealed Quotations are invited for repairing/serviceing of Battery chargers as per Bid document attached. The rates shall be quoted in BOQ in the bid document.

Signed, stamped and sealed offers should reach in the Office of Manager (Traction / E&M), Room no. 107, First Floor Admin building , Mansarovar Metro train depot, Bhriugu path, Mansarovar, Jaipur-302020 Contact No.7728895663 by 10/09/2018 at 12:00 Hours positively. Offers received after due date and time will not be entertained. Quotation will be opened on 10.09.2018 at 12:30 hrs.

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28.8.18*

**Executive Director (Traction and E&M)  
JAIPUR METRO RAIL CORPORATION LTD.**

Encl: - Bid document

## 1 NOTICE INVITING TENDERS (NIT)

No. 2(90)/JMRC/O&S/TEM/2018/Repairing of Battery Charger

Dated: 28.08.2018

Jaipur Metro Rail Corporation (JMRC) Ltd. invites bid as detailed below:

### KEY DETAILS

a)	Name of Work	Repairing/Serviceing of Statcon Make Battery Charger installed at various stations and depot of JMRC (Phase 1A).
b)	NIB No.	JMRC/O&S/EL/2018-19/NIB/019 Dated: 28/08/2018
c)	Approximate Estimated Cost of Work (with GST included )	Rs. 34220/-
d)	Tender Security Amount	Nil
e)	Bid document availability period	14:00 hrs. Of 28.08. 2018 to 11:45 hrs. of 10.09.18
f)	Last Date for submission of Tender	12:00 hrs. On 10.09. 2018
g)	Time & Date of Opening of Bid	12:30 hrs. on 10.09.2018
h)	Venue of Physical Submission and Opening of Tender	O/o Manager (Traction / E&M), Room no. 107, First Floor, Admin building , Mansarovar metro train depot, Bhriugu path, Mansarovar, Jaipur-302020,Contact No.: 0141-2822115
i)	Validity of Tender	90 days from the last date of submission of tender.
j)	Stipulated Date of Commencement of Work	Within 8 Days from the date of issue of letter of acceptance.
k)	Period of Completion	10 days from the date of issue of letter of acceptance.
l)	Performance Security	10% of the total contract price

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## 2 INSTRUCTIONS TO TENDERERS

### 2.1 OBJECTIVE OF THE TENDER

There are total 27 no of battery chargers of Statcon make 110V/ 50A dual Float cum boost charger (2X100% FCBC & 3X100% FCBC) installed at various stations and Depot of JMRC (phase 1A). The chargers are providing 110V DC controlling supply for 33KV HT panels, OHE Post equipment and RTU along with charging of battery banks which provides 110V DC supply in case of failure of chargers. The battery banks can provide the 110V DC supply up to 8 to 10 Hrs. Only depending on DC load.

There are two types of battery chargers namely type 1 & type 2 are installed at stations ASS depending on system requirement. The type 1 chargers are consisting of two battery chargers, one as a main and another as a standby charger. The type 2 chargers are consisting of three chargers, two as a main and another is standby for both chargers. The type 2 chargers set are being used for both ASS and OHE post.

The battery charger are having various failure like DC earth fault, DC over voltage, phase fail, wrong indications etc. So the rectification of the same is required for smooth functioning of these chargers as well as all other equipment depending on these chargers.

### 2.2 INTRODUCTION

Sealed tenders are invited for the Bid No. JMRC/O&S/EL/2018-19/NIB/..... towards '**Repairing/ Servicing of Statcon Make Battery Charger installed at various stations and depot of JMRC (Phase 1A).** Hereinafter called the 'Employer', for Works in accordance with this Tender Package. The Bid Document consists of the following:

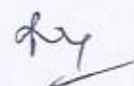
- (i) Notice Inviting Tender (NIT)
- (ii) Instructions To Tenderers (ITT)
- (iii) Special Conditions of Contract (SCC)
- (iv) Technical Specifications and Scope of work
- (v) Financial Bid - Bill of Quantities

**Note: -**

(A) Corrigendum, Addendums and subsequent clarifications on bid terms, if any, can be down loaded from the above mentioned websites. All the information, intimation and updates regarding this tender shall be published on above mentioned websites only. Keep visiting these websites for any subsequent clarifications & modifications.

(B) If the date of opening is declared holiday, then Bids will be opened on next working day.

Signature of firm representative (with seal of firm)



(C) Approved GCC and SHE manual are applicable and available on the JMRC website successful bidder shall sign the complete GCC and SHE documents and submit to the JMRC.

### 2.3 BID DOCUMENT

The complete bid document can also be downloaded from the website <http://transport.rajasthan.gov.in/jmrc> or [www.sppp.rajasthan.gov.in](http://www.sppp.rajasthan.gov.in).

### 2.4 SUBMISSION OF BID

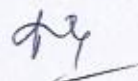
The Proposal duly filled in and complete in all respects must be submitted in a sealed envelope at the JMRC office clearly marked as "CONFIDENTIAL" and **Repairing/ Servicing of Statcon Make Battery Charger installed at various stations and depot of JMRC (Phase 1A).**

Executive Director (Traction and E&M)  
JMRC, Room no. 322, 3rd Floor, Admin Building,  
Mansarovar Metro Train depot, Jaipur – 302020  
Tel: +91-141-2822103, Email: [edtem@jaipurmetrorail.in](mailto:edtem@jaipurmetrorail.in)

### 3. Special Conditions of Contract (SCC):-

1. The above said service shall be delivered at various Metro station and Depot of Jaipur Metro rail corporation ltd. (Phase 1A), Jaipur-302020.
2. Quoted price must be inclusive of Fooding, lodging and all sorts of conveyance in connection with attending battery chargers at various metro station and depot of JMRC, Taxes, duties, contractor profit etc. but exclusive of GST which shall be paid extra at actual as per govt. rule at the time of billing; however present rate is @ 18%. No other charges shall be paid by JMRC.
3. Final servicing of battery chargers shall be within 30 days from the Date of issue of letter of acceptance (LOA) or earlier.
4. Payment Terms-100% payment after satisfactory completion of work. This should be jointly verified by JMRC representative (JE/PSI) and M/s Statcon Energiaa Engineer. This report has to submit along with invoice for release of payment.
5. All consumable items / spare parts required for carrying out repairing/servicing shall be supplied by you as per M/s Statcon Energiaa standard price list or other OEMs. These Materials to attend battery chargers should be strictly as per specification and Make .GST shall also be paid extra as per rates applicable at the time of billing. Spares parts used during repairing/servicing shall have minimum warranty of 12 months.
6. The contractor should depute only qualified/experienced service engineer for repairing/servicing of battery chargers at JMRC.

Signature of firm representative (with seal of firm)



7. Any modification in the battery chargers during repairing/servicing after analysis shall be done with prior approval of ED (Traction and E&M)/ JMRC.
8. Released Spares/other items, if any, shall be property of JMRC.
9. The minimum no of days for visit of your service engineer will be as per work requirement.
10. Root cause analysis for the major and repeated failure taking place in the system shall be done by M/s Statcon Energiaa and shall submit a report giving proper analysis of the fault /defects.
11. Specialised Tool and Plant will be provided by Contractor and those will not be in scope of JMRC.
12. The amount of performance security @ 10% of the bill amount shall be deducted from firm's Running bills as no fixed contract amount is workable in advance due to requirement of actual usage of consumables and spares (if any). This performance security shall be refunded on completion of warranty period.
13. Consignee: JE/PSI, Mansarovar Metro Depot, Jaipur-Rajasthan.
14. Validity of offer:-Tenderer is required to keep their offer open at least 90 days from the date of bid opening.
15. Tender name, tender no, due date & time should be also be mentioned on the sealed offer.
16. After repairing/ servicing, the service engineer of firm shall demonstrate the functioning of Battery Charger to the entire satisfaction of JMRC staff.

#### **4 Technical Specifications and Scope of work**

##### **(A) Technical specifications of the battery charger**

<b>S. No.</b>	<b>parameters</b>	<b>Specification</b>
1.	Description of battery charger	Statcon Make Battery Charger 110V/50A DUAL Float Cum Boost Charger
2.	Battery type and capacity	Valve Regulate Nickel Cadmium(VRNM) 110V/180 AH
3.	AC input voltage	415 VAC +10%, -15%,
4.	AC input frequency	50Hz. Permissible frequency variation $\pm 5\%$
5.	DC output setting	(a) Nominal : 110V (b) Float: 121V DC (Adjusted to $\pm 1\%$ ) (c) Boost: 124.5V DC (Adjusted to $\pm 1\%$ )
6.	Output current limits	50Amp
7.	Voltage regulation at bridge output	$< \pm 1V$ for +10%, -15% input voltage variations and 10-100% output load variation.
8.	Ripple voltage	$\leq 3\%$ RMS (without battery connected) at nominal Input voltage and rated output power.
9.	Switchgear & protection	(a) Input Side : MCB (b) Output Side : MCB Protection :

Signature of firm representative (with seal of firm)

*[Handwritten Signature]*

		<ul style="list-style-type: none"> <li>(a) Surge suppressors</li> <li>(b) Soft start</li> <li>(c) Current limit</li> <li>(d) Control circuit fuses</li> <li>(e) Blocking Diode</li> <li>(f) DC over/under voltage.</li> <li>(g) AC over/under voltage.</li> <li>(h) HRC fuse at rectifier output</li> <li>(i) Battery reverse polarity</li> <li>(j) Voltmeter fuse</li> <li>(k) Automatic changeover feature</li> </ul>
10.	Meter analogue type & LCD display	Meters (96 x 96mm, 1.5% Acc., Analog type) <ul style="list-style-type: none"> <li>(a) Input Voltmeter : 0-500V AC, For Input AC Voltage</li> <li>(b) Output Voltmeter : 0-200V, DC, Battery Voltage, Load Voltage</li> <li>(c) DC Ammeter : <math>\pm</math> 75A DC, Battery current, Total Current</li> </ul>
11.	Indication LED type	<ul style="list-style-type: none"> <li>(a) R, Y, B PHASE ON</li> <li>(b) DC ON</li> <li>(c) Float (d) Boost</li> </ul>

(B) **Scope of work :**

The bidder shall done repairing/servicing the Battery Charger to the entire satisfaction of JMRC Engineers as per terms and conditions enclosed in Special Conditions of Contract (SCC).

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Signature of firm representative (with seal of firm)

**5 FINANCIAL BIDS: -**

GST No. - \_\_\_\_\_

**BILL OF QUANTITY (BOQ)**

<b>S.N o.</b>	<b>Description of particulars</b>	<b>Unit</b>	<b>Qty (a)</b>	<b>Rate/Unit (INR) (b)</b>	<b>Amount (INR) c=a*b</b>
1.	Service Engineer for first day				
2.	Service Engineer for second day				
Sub Total (Rs.)(d)					
Less , discount if any					
GST @(e)					
Grand Total(f=d+e)					
<b>Total Amount (Rs.)in Words:</b>					

**Signature of firm representative  
(With seal of firm)**

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