

*RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.*

# **NOIDA METRO RAIL CORPORATION (NMRC) LIMITED**

## **REQUEST FOR PROPOSAL (RFP)**

**Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

***Tender No.: NMRC /E&M/Rate contract /315/2024***

**May 2024**

**Issued by:**

**Noida Metro Rail Corporation (NMRC)  
Limited Block-III, 3<sup>rd</sup> Floor,  
Ganga Shopping Complex, Sector-29, Noida -  
201301, District Gautam Budh Nagar, Uttar  
Pradesh, India**

## Disclaimer

This Request for Proposal (RFP) Document for **“Rate Contract for E&M works in NMRC at Depot, Staff Quarters and Stations of N- GN corridor for 3 years.”** contains brief information about the scope of work and selection process for the Bidder (“the Contractor” or “the Tenderer”). The purpose of the Document is to provide the Bidders with information to assist the formulation of their Bidding Documents.

While all efforts have been made to ensure the accuracy of information contained in this RFP Document, this Document does not purport to contain all the information required by the Bidders. The Bidders should conduct their own independent assessment, investigations and analysis and should check the reliability, accuracy and completeness of the information at their end and obtain independent advice from relevant sources as required before submission of their Bids. Noida Metro Rail Corporation Ltd. (“NMRC” or “the Corporation” or “the Employer”) or any of its employees or advisors shall incur no liability under any law, statute, rules or regulations as to the accuracy or completeness of the RFP Document.

NMRC reserves the right to change any or all conditions/information set in this RFP Document by way of revision, deletion, updating or annulment through issuance of appropriate addendum as NMRC may deem fit without assigning any reason thereof.

NMRC reserves the right to accept or reject any or all Bids without giving any reasons thereof. NMRC will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the Bids to be submitted in terms of this RFP Document.

## Glossary

- a) **“Addendum / Amendment”** means any written amendment / addendum /corrigendum to this RFP, from time to time issued by NMRC to the prospective bidders
- b) **“Agreement”** means the Contract Agreement to be executed between NMRC and the Selected Bidder
- c) **“Applicable Laws”** means all the laws including local, state, national or other laws, brought into force and effect by Govt. of India, State Governments, local bodies, statutory agencies and any other, and rules / regulations / notifications issued by them from time to time. It also include judgments, decrees, injunctions, writs and orders of any court or judicial authority as may be in force and effected from time to time
- d) **“Bidder”** or **“Tenderer”** means any entity which is a sole proprietorship firm, a partnership firm or a company, in title and assigns which is submitting its bid pursuant to RFP Documents
- e) **“Bid Due Date”** means Bid Submission end date and time given in the tender
- f) **“Earnest Money Deposit (EMD)”** means the refundable amount to be submitted by the Bidder along with RFP documents to NMRC
- g) **“NMRC”** means Noida Metro Rail Corporation Limited (or “Corporation” or “Employer”)
- h) **“Party”** means Contractor or Corporation (together they are called **“Parties”**)
- i) **“Performance Bank Guarantee / Security Deposit”** means interest free amount to be deposited by the Contractor with NMRC as per terms and conditions of Contract Agreement as a security against the performance of the Contract agreement
- j) **“Permits”** shall mean and include all applicable statutory, environmental or regulatory Contracts, authorization, permits, consents, approvals, registrations and franchises from concerned authorities
- k) **“Re. or Rs. or INR”** means Indian Rupee
- l) **“Revenue Operations Date (ROD)”** means the date of operation of Metro
- m) **“Selected Bidder”** means the bidder who has been selected by NMRC, pursuant to the bidding process for award of Contract
- n) **“CAMC”** means Comprehensive annual maintenance contract
- o) **“AMC”** means Annual Maintenance contract.
- p) **“Engineer”** means any person nominated or appointed from time to time by the employer to act as the Engineer for the purposes of the contract and notified as such in writing to the contractor.

The words and expressions beginning with capital letters and defined in this document shall, unless repugnant to the context, have the meaning ascribed thereto hereinabove.

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

## Data Sheet

1	Name of the Bid	<b>Rate Contract for Miscellaneous Electrical &amp; Mechanical (E&amp;M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years</b>
2	Approximate Cost of Work	INR 3,25,79,399.60/-(including GST)
3	Time-period of contract	Three (3) years
4	Method of selection	Cost Based Selection (Lowest –L1)
5	Bid Processing Fee	INR 23,600/- (including GST) (INR Twenty Three Thousand Six Hundred only) through RTGS/NEFT only payable in favour of Noida Metro Rail Corporation Limited
6	Earnest Money Deposit (EMD)	INR 3,25,794/- (including GST) (INR Three Lakh Twenty Five Thousand Seven Hundred Ninety Four only) through RTGS/NEFT only payable in favour of Noida Metro Rail Corporation Limited.
7	Financial Bid to be submitted together with Technical Bid	Yes
8	Name of the Corporation's official for addressing queries and clarifications	<b>ED/ NMRC Noida Metro Rail Corporation (NMRC) Limited Block-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida -201301 District Gautam Buddha Nagar, Uttar Pradesh Email: <a href="mailto:nmrcjgmelectrical@gmail.com">nmrcjgmelectrical@gmail.com</a>, <a href="mailto:nmrcrsandel@gmail.com">nmrcrsandel@gmail.com</a>, <a href="mailto:nmrcnoida@gmail.com">nmrcnoida@gmail.com</a></b>
9	Bid Validity Period	180 days
10	Bid Language	English
11	Bid Currency	INR
12	<b>Schedule of Bidding Process</b>	
	Head	Key Dates
	Uploading of Bid	13.05.2024
	Pre-bid Meeting	20.05.2024, 16:00 hrs
	Last date of submission of Queries	27.05.2024, 16:00 hrs
	Last date of issuing amendment/clarifications, if any	05.06.2024
	Last Date of Bid Submission	12.06.2024, 11:00 hrs.
	Date of Technical Bid Opening	12.06.2024, 17:00 hrs.

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13	JV or Consortium to be allowed	No
14	Account details	<b>For Bid Processing Fee &amp; EMD</b> <b>ICICI Bank Ltd. (04077) – Sector 18</b> <b>Branch, K-1 Senior Mall, Sec. 18,</b> <b>Noida, Uttar Pradesh -201301</b>  <b>IFSC Code: ICIC0000031</b>  <b>A/c No.: 003101230061</b>  <b>Noida Metro Rail Corporation Ltd.</b>

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## **1. Section 1: General Information**

### **1.1 Background**

- a) Noida and Greater Noida are being developed as the satellite towns to New Delhi and more and more people from Delhi and other areas are shifting to these towns in search of fresh air, greenery and better infrastructure. There is a need of providing an efficient, reliable and comfortable transportation system for the population intending to settle in these towns and also the public coming to these areas for education, service and business.
- b) Noida Metro Rail Corporation limited is a Special Purpose Vehicle (SPV) formed by Noida and Greater Noida Authorities for planning and executing urban transport projects in Noida, Greater Noida regions. The Corporation desires to provide a world-class Public Transportation System with state-of-the-art technology. As such, the overarching criterion for setting up of the Corporation is to help create an efficient, safe, reliable, economical and affordable public transport system.
- c) An elevated metro line between Noida and Greater Noida is already under Revenue operation.
- d) NMRC invites E-Bids for selection of Contractor for **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**
- e) In this regard, the Corporation now invites the interested Bidder/s to submit their proposals as per provisions of this RFP Document.
- f) NMRC will shortlist the Bidders on the basis of evaluation criteria mentioned in this RFP Document. On the basis of the minimum evaluation criteria, qualified Bidders will be shortlisted and financial proposal of only qualified Bidders will be opened.

### **1.2 About Metro Locations**

The metro corridor is 29.7 km long and is known as Noida Greater Noida Metro Rail Corridor. It comprises 21 metro stations starting from Sector 51 in Noida and ends up at Depot Station in Greater Noida. The map is in Appendix 1: Metro Alignment

### **1.3 Communication**

All communications should be addressed to -

ED/NMRC

Noida Metro Rail Corporation (NMRC) Limited

Block-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida -201301

District Gautam Budh Nagar, Uttar Pradesh

Email: [nmrcjgmelectrical@gmail.com](mailto:nmrcjgmelectrical@gmail.com),

[nmrcrsandel@gmail.com](mailto:nmrcrsandel@gmail.com)

[nmrcnoida@gmail.com](mailto:nmrcnoida@gmail.com)



## **2. Section 2: Terms of Reference**

### **2.1 Objective**

Execution of **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years** provided in tender with suitable uniformed trained manpower, consumables, spare parts, equipment & machinery etc. The Tenderer is to carry out their self-assessment in respect of their capacity in terms of manpower, maintenance, machine, spare parts and finance. The Bidder should be able to take up additional similar work at short notice. Similarly the scope of work may also be reduced on account of poor performance and contractor shall have no right for any claims due to reduction in scope of work.

### **2.2 General**

The works shall be done in accordance with Employer's Requirements and the other requirements of the Contract. The work shall be executed to the highest standards available using proven up-to-date good Engineering practices. Tenders are called from the electrical contractor having valid contractor license.

### **2.3 Scope of Works**

The work for "**Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**" shall be executed as mentioned in 'Technical Specifications & Employer's requirement' with suitable uniformed trained technician, Consumables, spare parts, modern equipment & machinery etc. All activities to be carried out as per the Schedule of work given in 'Bill of Quantity', as per 'Special conditions of contracts' and as other terms & conditions of tender documents.

Other miscellaneous items shall be as per instructions of engineer in charge.

***It is to be noted:***

- a)** The contractor shall plan & execute the work in such a way that the work proceeds smoothly to the satisfaction of engineer.
- b)** The Contractor shall attend regular coordination meetings convened by the employer / engineer for interface and adhere to the decisions taken in the meeting.
- c)** Access will be provided to the staff appointed by the contractor for carrying out their works and bringing materials and Equipments at site. However, the security of materials and Equipments brought at the site will be the responsibility of the Contractor.

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- d)** The Contractor shall take all necessary precautions to ensure safety of the staff, adjoining structures, materials & equipments and the work in progress as per the directions of engineer- in-charge.
- e)** Manpower (Electrician & Helper) shall be deployed as specified in the tender documents. They shall be adequately qualified & shall be authorized to carry out the Electrical Work. All the staff to be deployed after giving the safety training and police verification. Only authorized staff of contractor having proper identity card shall be permitted to enter in metro stations, RSS and RS depot for execution of work and maintenance of E&M system.
- f)** All incidental arrangements for safe transport of Material, machine, tools etc. shall be the responsibility of the contractor. All expenditure to be incurred in this connection shall be borne by contractor.
- g)** Log book detailing work carried out by Contractor with mentioning date, details of work completed, and complaints if any etc. will be maintained and signed both by NMRC and contractor officials.
- h)** In case of discrepancy among Standard codes of Practice, Technical Specifications and provision in sub-clauses in this NIT, the order of precedence will be as below:
  - Provision in NIT/BOQ
  - Employer's Requirement.
  - Standard Code of Practice

## **2.4 Tenure**

This contract will be valid for three years or up to the extended period as decided mutually by the Contractor & Engineer after approval of the Competent Authority.

### **3. Section 3: Instructions to Bidders**

#### **3.1 General instructions**

- a) A tenderer shall submit only one bid in the same tendering process. A tenderer who submits or participates in, more than one bid will cause all of the proposals in which the tenderer has participated to be disqualified. No tenderer can be a sub-contractor while submitting a bid individually in the same bidding process. A tenderer, if acting in the capacity of subcontractor in any bid, may participate in more than one bid, but only in that capacity.
- b) The Bidder shall initiate, and actively pursue and involve itself in all investigations and enquiries, Corporation feedbacks, information, convening of and attendance at meetings, and in any other activities as are or may be necessary for producing high quality work as per the requirements.
- c) The Bidder shall carry out the services in compliance with the provisions of this Agreement. Any and all changes necessary to ensure that the Bidder's documents conform to the intent and purpose set out in the Agreement, shall be made at the Bidder's own expense. The Bidder represents that it is a professional and experienced company and hereby agrees to bear full responsibility for the correctness and technical merit of the services performed.
- d) Bidders shall be evaluated on the basis of the Evaluation Criteria specified in this document. Bidders shall be deemed to have understood and agreed that no explanation or justification for any aspect of the Selection Process will be given and that NMRC's decisions are without any right of appeal whatsoever.
- e) Any entity which has been barred by the Central/State Government in India or by any entity controlled by them, from participating in any project, and the bar subsists as on the date of Bid, would not be eligible to submit an e - Bid.
- f) Bidders are encouraged to inform themselves fully about the assignment and the local conditions before submitting the e-Bid by paying a visit to the Corporation and/or by sending written queries to NMRC before the last date for receiving queries/clarifications.
- g) NMRC shall not be liable for any omission, mistake or error on the part of the Bidder in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to e-Bid or the Selection Process, including any error or mistake therein or in any information or data given by NMRC.
- h) The currency for the purpose of the Proposal shall be the Indian Rupee (INR).
- i) Tenderers shall not have a conflict of interest. All Tenderers found to have a conflict of interest shall be disqualified. Tenderers shall be considered to have a conflict of interest with one or more parties in this bidding process, if:
  - i. A tenderer has been engaged by the Employer to provide consulting services for the preparation related to procurement or implementation of the project;
  - ii. A tenderer is any associates/affiliates (inclusive of parent firms) mentioned in subparagraph above; or
  - iii. A tenderer lends, or temporarily seconds its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for an implementation of the project, if the personnel would be involved in any capacity on the same project.

### **3.2 Cost of Bid Document / e-Tender processing Fee**

- a) The tenderer shall bear all costs associated with the preparation and submission of its e-Bid and Noida Metro Rail Corporation Ltd. ("NMRC" or "the Corporation"), will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the e-Bid process.
- b) This tender document is available on the web site <http://etender.up.nic.in> or on NMRC website ([www.nmrcnoida.com](http://www.nmrcnoida.com)) to enable the tenderers to view, download the e-Bid document and submit e-Bids online up to the last date and time mentioned in e-Tender notice/e-tender document against this e-Tender. The tenderers shall have to pay cost of bid document/ e-Tender processing fee of as mentioned in **Data Sheet** through RTGS/NEFT only payable in **favour of "Noida Metro Rail Corporation Limited"** in the A/c No. mentioned in **Data Sheet**. The scanned copy of RTGS/NEFT receipt with transaction Id certified by the same bank must be enclosed along with the e-Bid. This cost of bid document/ e-Tender processing fee as mentioned in **Data Sheet** will be non-refundable. Tender without cost of bid document/ e-Tender processing fee in the prescribed form, will not be accepted.
- c) Conditional Bid shall be rejected outright & shall not be considered.

### **3.3 Acknowledgement by Bidder**

It shall be deemed that by submitting the e-Bid, the Bidder has:

- a) Made a complete and careful examination of the e-Bid;
- b) Received all relevant information requested from NMRC;
- c) Acknowledged and accepted the risk of inadequacy, error or mistake in the information provided in the e-Bid or furnished by or on behalf of NMRC;
- d) Satisfied itself about all matters, things and information, necessary and required for submitting an informed Application and performance of all of its obligations there under;
- e) Acknowledged that it does not have a Conflict of Interest; and
- f) Agreed to be bound by the undertaking provided by it under and in terms hereof.

### **3.4 Availability of Bid Document**

This Bid document is available on the web site <http://etender.up.nic.in> or on Noida Metro website [www.nmrcnoida.com](http://www.nmrcnoida.com) to enable the Bidders to view, download the e-Bid document and submit e-Bids online up to the last date and time mentioned in e-Bidder notice/ e-Bid document. The Bidder's shall have to pay e-Bid document fee and EMD as mentioned in Data sheet through RTGS/ NEFT on addresses given in data sheet. The scanned copy of RTGS/ NEFT with transaction ID certified by the same bank must be enclosed along with the e-Bid. This e-Bid document fee will be non-refundable. Bid without Bid fee in the prescribe form will not be accepted.

### **3.5 Clarifications of e-Bid**

- a) During evaluation of e-Bid, NMRC may, at its discretion, ask the Bidder for a clarification of his/her e-Bid. The request for clarification shall be in writing.
- b) Any queries or request for additional information concerning this RFP shall be submitted in writing or by fax and e-mail to the **CGM technical**, NMRC **only before or during Pre-Bid Meeting** held at NMRC. The envelopes / communication shall clearly bear the following identification / title: "**Queries/ Request for Additional Information: RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**". The responses will be posted to all such queries on the official Website [www.nmrcnoida.com](http://www.nmrcnoida.com). NMRC reserves the right not to respond to any questions or provide any clarifications, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring NMRC to respond to any question or to provide any clarification.
- c) A pre- submission meeting shall be called on the date mentioned in **Data Sheet** at NMRC Office. Any change corresponding to date, if any, shall be communicated to the Bidder vide NMRC/ e- Tendering website.
- d) In case the Bidder seeks for any queries, he shall send letter or e-mail to the correspondence address given in Data Sheet.
- e) However, NMRC shall not entertain any correspondence from the Bidders during the period of e- Bid opening to selection of the successful Bidder. Any wrong practice shall be dealt under Fraud and Corrupt Practices.
- f) The Tenderer is advised to visit and examine the Site of Works and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the Tender and entering into a contract for the proposed work. The costs of visiting the Site shall be borne by the Tenderer. It shall be deemed that the Contractor has undertaken a visit to the Site of Works and is aware of the site conditions prior to the submission of the tender documents.
- g) The Tenderer and any of his personnel will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the Tenderer, and his personnel, will release and indemnify the Employer and his personnel from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of the inspection.

### **3.6 Amendment of e-Bid Document**

- a) At any time prior to the deadline for submission of e-Bid, NMRC may, for any reason, whether at its own in interactive or in response to a clarification requested by a prospective Bidder, modify the e-Bid document by amendments. Such amendments shall be uploaded on the e-procurement website <http://etender.up.nic.in> or NMRC's website [www.nmrcnoida.com](http://www.nmrcnoida.com). The relevant clauses of the e-Bid document shall be treated as amended accordingly.

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- b) It shall be the sole responsibility of the prospective Bidder to check the web site <http://etender.up.nic.in> or NMRC's website [www.nmrcnoida.com](http://www.nmrcnoida.com) from time to time for any amendment in the e-Bid documents. In case of failure to get the amendments, if any, NMRC shall not be responsible for it.
- c) In order to allow prospective e-Bids a reasonable time to take the amendment into account in preparing their e-Bids, NMRC, at the discretion, may extend the deadline for the submission of e-Bids. Such extensions shall be uploaded on the e-procurement website <http://etender.up.nic.in> or NMRC's website [www.nmrcnoida.com](http://www.nmrcnoida.com).

### **3.7 Preparation and submission of Bids**

#### **3.7.1 Language of e-Bid**

The e-Bid prepared by the Bidder, as well as all correspondence and documents relating to the e-Bid exchanged by the Bidder and NMRC shall be written in English language. Only English numerals shall be used in the e-Bid. The correspondence and documents in any other language must be accompanied by transcripts verified by the Embassy of Home Country or equivalent Documents constituting the e-Bid

#### **3.7.2 Documents constituting the e-Bid**

The e-Bid prepared by the Bidder shall comprise the following components:

##### **3.7.2.1 Technical e-Bid-** Technical e-Bid will comprise of

- a. **Fee details** - Details of Bid processing fee and prescribed EMD
- b. **Eligibility details-** Includes copies of required documents in PDF format justifying that the Bidder is qualified to perform the contract if his/her bid is accepted and the Bidder has financial & technical capability necessary to perform the contract and meets the criteria outlined in the Qualification requirement and technical specification and fulfil all the conditions of the contract.
- c. **Technical Evaluation** - Details of all documents needed for Technical evaluation as mentioned in this RFP.

##### **3.7.2.2 Financial e-Bid**

**Price bid** –Bill of Quantities in XLS format to be filled in after downloading from the e-Procurement website for this e-tender. There shall be a single quote.

#### **3.7.3 Documents Establishing Bidder's Qualification**

- a. The Bidder shall furnish, as part of its technical e-Bid, documents establishing the Bidder's qualification to perform the contract if its e-Bid is accepted. The documentary evidence should be submitted by the Bidder electronically in the PDF format.
- b. The documentary evidence of Bidder's qualification to perform the contract if its e-Bid is accepted shall be as per qualification requirements specified in e-Bid document.

### **3.7.4 E-Bid form**

The Bidder shall complete the e-Bid form and the appropriate price schedule/BOQ furnished in the e-Bid document.

### **3.7.5 E-Bid Currency**

Prices shall be quoted in Indian Rupees only.

### **3.7.6 Formats and Signing of e-Bid**

- a. The Bidder shall prepare one electronic copy of the technical e-Bid and financial e-Bid separately.
- b. The e-Bid document shall be digitally signed, at the time of uploading, by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. The later authorization shall be indicated by a scanned copy of written power-of attorney accompanying the e-Bid. All the pages/documents of the e-Bid that are to be uploaded shall be digitally signed by the person authorized to sign the e-Bid.
- c. Bidders should provide all the information as per the RFP and in the specified formats. NMRC reserves the rights to reject any proposal that is not in the specified formats.
- d. In case the Bidders intends to provide additional information for which specified space in the given format is not sufficient, it can be furnished in duly stamped and signed PDFs.

### **3.7.7 Deadline for submission of e-Bid**

E-Bid (Technical and financial) must be submitted by the Bidder at e-procurement website <http://etender.up.nic.in> not later than the time specified on the prescribed date (as the server time displayed in the e-procurement website). NMRC may, at its discretion, extend this deadline for submission of e-Bid by amending the e-Bid document, in which case all rights and obligations of NMRC and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

### **3.7.8 Submission of e-Bid**

- a) The bid submission module of e-procurement website <http://etender.up.nic.in> enables the Bidders to submit the e-Bid online in response to this e-Bid published by NMRC.
- b) Bid submission can be done only from the bid submission start date and time till the bid submission end date and time given in the e-Bid. Bidders should start the bid submission process well in advance so that they can submit their e-Bid in time.
- c) The Bidder should submit their e-Bid considering the server time displayed in the e-procurement website. This server time is the time by which the e-Bid submission activity will be allowed till the permissible time on the last/end date of submission indicated in the e-Bid schedule.

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- d) Once the e-Bid submission date and time is over, the Bidders cannot submit their e-Bid. For delay in submission of e-Bid due to any reasons, the Bidders shall only be held responsible.

**3.7.9 The Bidders have to follow the following instructions for submission of their e-Bid:**

- a) For participating in e-Bid through the e-Bidding system it is necessary for the Bidders to be the registered users of the e-procurement website <http://etender.up.nic.in>. The Bidders must obtain a user login Id and password by registering themselves with U.P. Electronics Corporation Ltd., Lucknow, if they have not done so previously for registration.
- b) In addition to the normal registration, the Bidder has to register with his/her digital signature certificate (DSC) in the e-Bidding system and subsequently he/she will be allowed to carry out his/her e-Bid submission activities. Registering the digital signature certificate (DSC) is a one- time activity. Before proceeding to register his/her DSC, the Bidder should first log on to the e- Biding system using the user login option on the home page with the login Id and password with which he/she has registered.

For successful registration of DSC on e-procurement website <http://etender.up.nic.in> the Bidder must ensure that he/she should possess class-2/class-3 DSC issued by any certifying authorities approved by controller of certifying authorities, Government of India, as the e-procurement website <http://etender.up.nic.in> is presently accepting DSC issued by these authorities only. The Bidder can obtain user login Id and perform DSC registration exercise given above even before the e-Bid submission date starts. NMRC shall not be held responsible if the Bidder tries to submit his/her e-Bid at the moment before end date of submission but could not submit due to DSC registration problem.

- c) The Bidder can search for active Bids through "search active tenders" link, select a Bid in which he/she is interested in and then move it to 'My Tenders' folder using the options available in the e-Bid submission menu. After selecting and the Bid, for which the Bidder intends to e-Bid, from "My tenders" folder, the Bidder can place his/her e-Bid by clicking "pay offline" option available at the end of the view Bid details form. Before this, the Bidder should download the e-Bid document and price schedule/bill of quantity (BOQ) and study them carefully. The Bidder should keep all the documents ready as per the requirements of e-Bid document in the PDF format except the price schedule /bill of quantity (BOQ) which should be in the XLS format (excel sheet).
- d) After clicking the 'pay offline' option, the Bidder will be redirected to terms and conditions page. The Bidder should read the terms & conditions before proceeding to fill in the Bid fee and EMD offline payment details. After entering and saving the Bid fee and EMD details form so that "bid document preparation and submission" window appears to upload the documents as per technical (fee details, qualification details, e-Bid form and technical specification details) and financial (e-Bid form and price schedule/BOQ) schedules/packets given in the Bid details. The details of the RTGS/NEFT should tally with the details available in the scanned copy and the date entered during e-Bid submission time otherwise the e-Bid submitted will not be accepted.



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- e) Next the Bidder should upload the technical e-Bid documents for fee details (e-Bid fee and EMD), Qualification details. Before uploading, the Bidder has to select the relevant digital signature certificate. He may be prompted to enter the digital signature certificate password, if necessary. For uploading, the Bidder should click "browse" button against each document label in technical and financial schedules/packets and then upload the relevant PDF/XLS files already prepared and stored in the Bidder's computer. The required documents for each document label of technical ( fee details, qualification details, e-Bid form and technical specification details) and financial ( e-Bid form and price schedule/BOQ) schedules/packets can be clubbed together to make single different files for each label.
- f) The Bidder should click "Encrypt" next for successfully encrypting and uploading of required documents. during the above process, the e-Bid document are digitally signed using the DSC of the Bidder and then the documents are encrypted/locked electronically with the DSC's of the bid openers to ensure that the e-Bid documents are protected, stored and opened by concerned bid openers only.
- g) After successful submission of e-Bid document, a page giving the summary of e-Bid submission will be displayed confirming end of e-Bid submission process. The Bidder can take a printout of the bid summary using the "print" option available in the window as an acknowledgement for future reference.
- h) NMRC reserves the right to cancel any or all e-Bids without assigning any reason.

### **3.8 Late e-Bid**

- a) Bids received by NMRC after the specified time on the Bid Due Date shall not be eligible for consideration and shall be summarily rejected.
- b) The server time indicated in the bid management window on the e- procurement website <http://etender.up.nic.in> will be the time by which the e-Bid submission activity will be allowed till the permissible date and time scheduled in the e-Bid.
- c) Once the e-Bid submission date and time is over, the Bidder cannot submit his/her e-Bid. Bidder has to start the bid submission well in advance so that the submission process passes off smoothly. The Bidder will only be held responsible if his/her e-Bid is not submitted in time due to any of his/her problems/faults, for whatsoever reason, during e-Bid submission process.

### **3.9 Withdrawal and resubmission of e-Bid**

- a) At any point of time, a Bidder can withdraw his/her e-Bid submitted online before the bid submission end date and time. For withdrawing the Bidder should first log in using his/her login id and password and subsequently by his/her digital signature certificate on the e-procurement website <http://etender.up.nic.in>. The Bidder should then select "My bids" option in the bid submission menu. The page listing all the bids submitted by the Bidder will be displayed. Click "View" to see the details of the bid to be withdrawn. After selecting the "bid withdrawal" option the Bidder has to click "Yes" to the message "Do you want to withdraw this bid?" displayed in the bid information window for the selected bid. The Bidder also has to enter the bid withdrawing reasons and upload the letter giving the reasons for

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withdrawing before clicking the "Submit" button. The Bidder has to confirm again by pressing "OK" button before finally withdrawing his/her selected e-Bid.

- b) No e-Bid may be withdrawn in the interval between the deadline for submission of e-Bids and the expiration of period of e- bid validity. Withdrawal of an e-Bid during this interval may result in the forfeiting of Bidder's e-Bid security.
- c) The Bidder can re-submit his/her e-Bid as when required till the e-Bid submission end date and time. The e-Bid submitted earlier will be replaced by the new one. The payment made by the Bidder earlier will be used for revised e-Bid and the new e-Bid submission summary generated after the successful submission of the revised e-Bid will considered for evaluation purposes. For resubmission, the Bidder should first log in using his/her login Id and password and subsequently by his/her digital signature certificate on the e-procurement website <http://etender.up.nic.in>. The Bidder should then select "My bids" option in the bid submission menu. The page listing all the bids submitted by the Bidder will be displayed. Click "View" to see the detail of the e-Bid to be resubmitted. After selecting the "bid resubmission" option, click "Encrypt & upload" to upload the revised e-Bids documents.
- d) The Bidder can submit their revised e-Bids as many times as possible by uploading their e-Bid documents within the scheduled date & time for submission of e-Bids.
- e) No e-Bid can be resubmitted subsequently after the deadline for submission of e-Bids.

**3.10 NMRC's right to accept any e-Bid and to reject any or all e-Bids:**

- a) Notwithstanding anything contained in this e-Bid, NMRC reserves the right to accept or reject any Bid and to annul the Selection Process and reject all Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.
- b) NMRC reserves the right to reject any Bid if:
  - At any time, a material misrepresentation is made or uncovered, or
  - The Bidder does not provide, within the time specified by NMRC, the supplemental information sought by NMRC for evaluation of the e-Bid.
- c) Such misrepresentation/ improper response may lead to the disqualification of the Bidder. If such disqualification /rejection occurs after the e-Bid have been opened and the highest ranking Bidder gets disqualified / rejected, then the NMRC reserves the right to consider the next best Bidder, or take any other measure as may be deemed fit in the sole discretion of NMRC, including annulment of the Selection Process.

**3.11 Period of validity of e-Bid**

- a) e- Bid shall remain valid for 180 days after the date of e-Bid opening prescribed by NMRC. An e- Bid valid for a shorter period shall be rejected by NMRC as non-responsive.
- b) In exceptional circumstances, NMRC may solicit the Bidder's consent to an extension of the period of e-Bid validity. The request and the response thereto shall be made in writing.

### **3.12 Correspondence with the Bidder**

- a) Save and except as provided in this e-Bid, NMRC shall not entertain any correspondence with any Bidder or its Technical Partners in relation to acceptance or rejection of any e-Bid.
- b) No Bidders or its Technical Partners shall contact NMRC on any matter relating to his e-Bid from the time of Bid opening to the time contract is awarded.
- c) Any effort by the Bidder or by its Technical Partners to influence NMRC in the Bid evaluation, Bid comparison or contract award decisions, may result in the rejection of his Bid.

### **3.13 Earnest money deposit (EMD)**

- a) The tenderer shall furnish, as part of its e-Bid, an e-Bid security/ EMD as stated in Data Sheet in form of RTGS/NEFT only in favour **Noida Metro Rail Corporation Limited** in the A/c No. mentioned in **Data Sheet**. The scanned copy of RTGS/NEFT receipt of Security/ EMD with transaction Id certified by the same bank must be enclosed along with the e-Bid. Tender without Earnest Money in the prescribed form, will not be accepted.
- b) Any e-Bid not secured in accordance with above shall be treated as non-responsive and rejected by NMRC.
- c) Unsuccessful Bidder's EMD will be returned within 45 days of opening of the Price Bid in case of Conclusion or discharge of the tender through written request.
- d) No interest will be paid by the Employer on the Earnest Money Deposit.
- e) The successful Bidder's e-Bid EMD will be adjusted with Performance Bank Guarantee, if applicable, to be submitted by the Bidder upon signing the contract.
- f) The EMD may be forfeited:
  - i. If Bidder
    - a) withdraws its e-Bid during the period of e-Bid validity specified by the Bidder on the e-bid for m: or
    - b) does not accept the correction of errors or
    - c) Modifies its e-Bid price during the period of e-Bid validity specified by the Bidder on the form.
  - ii. In case of a successful Bidder, if the Bidder fails to sign the contract with the Corporation.

### **3.14 Opening and Evaluation of Bids**

#### **3.14.1 Opening of technical e-Bid by NMRC**

- a) NMRC will open all technical e-Bids, in the presence of Bidder's representatives who choose to attend on the prescribed date of opening at NMRC Office. The Bidder's representatives who are present shall submit the letter to NMRC on the letter head of the company stating that the representative (name) is authorized to attend the meeting (Please note – The representative is required to carry a copy during pre-bid and other related meetings as well). He / She shall sign a register evidencing their attendance at NMRC. In the event of the

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specified date e-Bid opening being declared a holiday for the Corporation, the e –bids shall be opened at the appointed time and place on the next working day.

- b) The Bidder who is participating in e-Bid should ensure that the RTGS/NEFT of Bid Processing Fee and EMD must be submitted in the prescribed account of NMRC within the duration (strictly within opening & closing date and time of individual e-Bid) of the work as mentioned in Bid notice, otherwise, in any case, e-Bid shall be rejected.
- c) The Bidders names and the presence or absence of requisite e-Bid security and such other details as NMRC at its discretion may consider appropriate, will be announced at the opening.

### **3.14.2 Opening of financial e-Bid**

- a) After evaluation of technical e-Bid, through the evaluation committee NMRC shall notify those Bidders whose technical e-Bids were considered non-responsive to the conditions of the contract and not meeting the technical specifications and qualification requirements indicating that their financial e-Bids will not be opened.
- b) NMRC will simultaneously notify the Bidders, whose technical e-Bids were considered acceptable to the Corporation. The notification may be sent to the e-mail provided by Bidder.
- c) The financial e-Bids of technically qualified Bidders shall be opened in the presence of technically qualified bidders who choose to attend. The date and time for opening of financial bids will be communicated to the technically qualified Bidders subsequently after completion of technical bids evaluation through e-mail provided by the Bidder.

### **3.14.3 Correction of Errors**

- a) Financial Bids determined to be responsive will be checked by NMRC for any arithmetic errors. Where there is a discrepancy between the rate quoted in the Financial Bid, in figures and in words, the amount in words will prevail over the amounts in figures, to the extent of such discrepancy.
- b) The amount stated in the Financial Bid will be adjusted by NMRC in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected quoted rate of e-Bid, his e-Bid will be rejected, and his Bid Security shall be liable for forfeiture.

### **3.14.4 Examination of e-Bid document**

The NMRC will examine the e-Bid to determine if:

- a) They are complete;
- b) They meet all the conditions of the contract;
- c) The required e-Bid Processing fee, EMD and other required documents have been furnished;
- d) The documents have been properly digitally signed; and
- e) The e-Bids are in order.

Any e-Bid or e-Bids not fulfilling these above requirements shall be rejected.

### **3.14.5 Contacting NMRC**

- a) No Bidder shall contact NMRC on any matter relating to his/her e-Bid, from the time of the e-Bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of NMRC, he/she can do so in writing.

- b) Any effort by a Bidder to influence NMRC in its decisions on e-Bid evaluation, e- bid comparison or contract award may result in rejection of the Bidder's e-Bid.
- c) In the event of any information furnished by the Bidder is found false or fabricated, the minimum punishment shall be debarring /blacklisting from Noida Metro works and legal proceeding can also be initiated. EMD of such bidders will be forfeited.

### **3.14.6 Confidentiality**

- a) Information relating to the examination, clarification, evaluation, and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising NMRC in relation to or matters arising out of, or concerning the Bidding Process. Any effort by a Bidder to exert undue or unfair influence in the process of examination, clarification, evaluation and comparison of Proposal shall result in outright rejection of the offer, made by the said Bidder.
- b) NMRC shall treat all information, submitted as part of Bid, in confidence and shall require all those who have access to such material to treat the same in confidence. NMRC may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or NMRC or as may be required by law or in connection with any legal process.

## **3.15 Award of Contract**

### **3.15.1 Award Criteria**

- a) NMRC will award the contract as per evaluation criteria stated in the RFP Document.
- b) NMRC will award the contract to the successful Bidder whose bid has been determined to be responsive to all the conditions of the contract and meeting the eligibility requirement of the bidding document.

### **3.15.2 Notice of Award (NOA)**

- a) Prior to the expiration of the period of e-Bid validity, NMRC will notify the successful Bidder in writing, by letter/e-mail/fax, that its e-Bid has been accepted.
- b) The acceptance of NOA will constitute the formation of the contract.

### **3.15.3 Signing of contract**

At the same time as NMRC notifies the successful Bidder that it's e-Bid has been accepted, the successful Bidder shall have to sign the contract agreement with relevant document as mentioned in the RFP. The agreement draft along with other related terms and conditions will be same as furnished in this e-Bid. Any refusal will not be allowed. The Bidder need not download and submit in hard copies of these documents.

### **3.15.4 NMRC's right to accept any e-Bid and to reject any or all e-Bids**

NMRC reserves the right to accept or reject any e-Bid, and to annul the e-Bid process and reject all e- Bids at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderers.

## **4. Section 4: Qualification, Evaluation and Selection Process**

### **4.1 Eligibility Criteria**

The Bidder's competence and capability is proposed to be established by the following parameters. The Bidder should meet all the criteria given in this section.

- a) Sole proprietorship, registered partnership firm, public limited company or private limited company can submit the Bid. The firms and the companies should be registered in India.
  - b) The Bidder should have a minimum experience of having satisfactorily/successfully completed similar works during last 7 (Seven) years period ending last day of month previous to the one in which the bids are invited should be either of the following:
    - i. **One similar completed work costing not less than the amount equal to Rs. 2.61 Crore (Rupees Two Crore Sixty one Lakh only) or**
    - ii. **Two similar completed works each costing not less than the amount equal to Rs. 1.63 Crore (Rupees One Crore Sixty Three Lakh only) or**
    - iii. **Three similar completed works each costing not less than the amount equal to Rs. 1.30 Crore (Rupees One Crore Thirty Lakh only)**
- “**Similar work**” for this contract shall be “CAMC/AMC/SITC/maintenance/ repair of E & M system/ General E&M works/General Electrical works/Electrical & Mechanical Works” in NMRC/ any other Metro Organization/ Central govt./ State govt./PSU's/private sector companies.
- c) **The Bidder should have minimum average annual turnover of Rs. 86.88 lakh (Rupees Eighty Six Lakh Eighty Eight Thousand only) in the last 5 (Five) Financial Years (2018-19, 2019-20, 2020- 21, 2021-22, 2022-23) ending on 31<sup>ST</sup> March of the previous financial year.**
  - d) **The bidder should have Working Capital / Net cash flow (Current Assets minus current Liabilities) of more than or equal to Rs. 15.51 lakhs in the last audited financial year.**
  - e) **The Profit of bidder before tax should be positive in 2 years out of last 5 years.**
  - f) **Net worth of the bidder should be more than or equal to Rs. 21.72 lakhs in the last audited financial year.**
  - g) The Bidder should not have been blacklisted/ banned/ declared ineligible for corrupt and fraudulent practices by the Government of India/ any State Government/ Government Agency and Supreme court and contracts have been terminated/ foreclosed by any company / department due to non- fulfilment of Contractual obligation in last 5 (five) financial years.
  - h) The Bidder shall also furnish the following documentary proof (as per eligibility criteria):
    - i. For above criteria 4.1 a
      - Statutory proof of existence as the legal entity
      - PAN certificate as per legal entity

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- Valid Electrical Contractor License
- GST Certificate as per legal entity

**ii.** For above criteria 4.1 b

- Form 4: Work Experience with documentary evidence as mentioned in the Form 4

**iii.** For above criteria 4.1 c, 4.1 d, 4.1 e, 4.1 f.

- Form 5: Financial Capability Details
- A copy of the Audited balance sheets and Profit and Loss Statements for the last 5 (Five) financial years.

In case the Financial Statements for the latest financial year are not audited and therefore the Bidder cannot make it available, the Bidder shall give an undertaking to this effect and the statutory auditor/chartered accountant shall certify the same. In such a case, the Bidder shall provide the Audited Financial Statements for 4 (four) years preceding the year for which the Audited Financial Statement is not being provided. Also, pertaining to latest financial year, the bidder shall submit an affidavit certifying that "The Annual Accounts have not been audited so far. We are submitting the CA certified provisional accounts, which shall be substantiated by the Audited Accounts, when prepared."

- Self-attested copy of ITR of the last 5 (Five) Financial years.

**iv.** For above criteria 4.1 g

- Form 7: Undertaking.

## **4.2 Bid Capacity Criteria:**

**Bid Capacity:** The tenderers will be qualified only if their available bid capacity is more than the approximate cost of work as per NIT. Available bid capacity will be calculated based on the following formula:

Bid capacity will be calculated based on the following formula:

$$\text{Available Bid Capacity} = 2 * A * N - B$$

Where,

A = Maximum of the value of work executed in any one year during the last three financial years (updated to the last day of the previous month of tender submission price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year).

N = No. of years prescribed for completion of the work

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B = Value of existing commitments (as on the last day of the previous month of tender submission) for on-going works during period of 36 months w.e.f. from the first day of the month of tender submission.

**Notes:**

- Financial data for latest last five financial years has to be uploaded by the tenderer in Form-5 of Tender along with audited financial statements. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original along with UDIN and membership no.
- Value of existing commitments for on-going works during period of 36 months w.e.f. from the first day of the month of tender submission has to be uploaded by the tenderer in Form-16 of Tender. These data shall be certified by the Chartered Accountant with his stamp and signature in original along with UDIN and membership no. and supporting documents. Without supporting documents, bid capacity criteria cannot be considered.
- The tender submission of tenderers, who do not qualify the minimum eligibility criteria stipulated in the clauses above, shall not be considered for further evaluation and therefore rejected. The mere fact that the tenderer is qualified as mentioned in above shall not imply that his bid shall automatically be accepted. The same should contain all technical data as required for consideration of tender prescribed in the RFP.

### **4.3 Personnel**

The Tenderer shall submit - Form 11: Undertaking pertaining to Personnel, a staffing schedule, and Form 12 containing the names, qualifications, professional experience and corporate affiliation of all proposed management personnel (above the level of shift supervisor) and specialists for this work. The submission shall include a provisional management structure and organisation chart showing areas of responsibility, relative seniorities and lines of reporting. The proposed staffing plan shall be in conformity with the following:

➤ **RESOURCES PROPOSED FOR THE PROJECT – PERSONNEL MINIMUM ORGANISATION STRUCTURE REQUIRED**

The figures indicated below are the minimum number of Personnel required to attend the failures/maintenance which are to be deployed as per the minimum level of qualification/experience of site staff is given as follows:



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S. No.	Designation of Project Personnel	Minimum qualification	Minimum Requirement	Relevant minimum years of experience
1	Project Manager	Degree in Electrical/ Electronics Engineering or equivalent	1	5
2	Supervisor	Diploma in Electrical/ Electronics Engineering or equivalent	2	5
3	Technician	ITI (Electrician/electronics or equivalent)	4	AS PER SITE REQUIREMENT

Notes:

- I. The contractor shall deploy resources as per the above-mentioned minimum requirement and also confirm to deploy manpower over and above the minimum numbers indicated above, if the work requires so.
- II. The performance of project personnel deployed will be evaluated periodically by Employer during the contract period. In case the performance of any of the project personnel is not satisfactory, the Contractor shall replace them with good personnel immediately as per directions of the Engineer.

#### 4.4 Compliance with Technical Specifications

The Bidders must comply with the stipulated technical specifications as mentioned in the tender documents.

#### 4.5 Information of the Technical and Financial Proposal

- a) The Bidder satisfying technical and financial eligibility criteria shall be considered as technically and financially qualified.
- b) The financial proposal of only technically qualified Bidders shall be opened for evaluation.
- c) The Bidder with the lowest quoted price for the RFP for **Rate Contract for E&M works in NMRC at Depot, Staff Quarters and Stations of N- GN corridor for 3 years** in the financial quote (L1 bidder) shall be selected for the award of contract.

#### 4.6 Selection of Bidder

After the above evaluation process, the Technically Qualified Bidder, who is declared as L1 (lowest quoted price) may be declared as the selected Bidder ("Selected Bidder") for the Project.

- a) In case, two or more technically qualified bidders quote the same rate in the Commercial Bid, and become Lowest (i.e. L-1), then the tender would be awarded to the bidder who has the highest / higher Average Annual Turnover (as per Minimum Eligibility Criteria defined in Section 4 under "Definition of Similar Work") during the last 2 years ending on the last day of the month

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preceding the month in which the tender has been floated. Experience certificate / work completion certificate on client's letter head is mandatory to ascertain the nature, period and value of work which shall be required to be uploaded by the bidder by the last date of tender submission. Prior to the expiry of the period of bid validity, NMRC will notify the successful bidder in writing, either through Notice of Award (NOA), that his bid has been accepted.

- b) Prior to the expiry of the period of bid validity, NMRC will notify the successful bidder in writing through Notice of Award (NOA), that his bid has been accepted.
- c) The NOA would be sent in duplicate to the successful bidder, who will return one copy to NMRC duly acknowledged, signed and stamped by the authorized signatory of the bidder, as an unconditional acceptance of the NOA, within 10 (ten) days from the date of issue of NOA.
- d) No correspondence will be entertained by NMRC from the unsuccessful bidder.

#### **4.7 Notice of Award and Execution of Contract Agreement**

- a) NMRC will notify the Successful Bidder by a NOA that its bid has been accepted.
- b) The Selected Bidder shall, within 10 (ten) days of the receipt of the NOA, sign and return the duplicate copy of the NOA in acknowledgement thereof along with letter of acceptance of NOA. In the event, the duplicate copy of the NOA duly signed by the Selected Bidder and letter of acceptance of NOA is not received by the stipulated date, NMRC may, unless it consents to extension of time for submission thereof, appropriate the Bid Security of such Bidder as mutually agreed genuine pre-estimated loss and damage suffered by NMRC on account of failure of the Selected Bidder to acknowledge the NOA
- c) The Successful Bidder shall execute the Contract Agreement within 45 (Forty Five) days of the letter of acceptance of NOA or such extended period as may be decided by the Corporation.
- d) Failure of the Successful Bidder to comply with the requirement of acknowledgement of NOA shall constitute sufficient grounds for the annulment of the NOA, and forfeiture of the bid security.
- e) The Employer reserves the right to increase or decrease the quantity up to 25% of the quantity offered by the successful tenderer. The bidder is bound to accept the increase or decrease in the tendered quantity up to 25% under this clause without any change in unit price.

In case the variation in individual items or the group of items as stipulated above, is more than 25% on plus side, the rate for the varied quantity beyond 25% shall be negotiated between the NMRC and the Contractor and mutually agreed rates arrived at before actual execution of the extra quantity. In case the contractor executes the extra quantity without written approval of the NMRC with specific instructions to execute pending the finalization of rates, the payment shall be made at contract rate only. In the event of disagreement, the Engineer shall fix such rates of price as are, in his opinion appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the Engineer shall determine provisional rates or prices to enable on account payments to the Contractor. Alternatively, in the event of disagreement, the Contractor shall have no claim to execute extra quantities/new items and the Engineer shall be free to get such additional quantities beyond 25% new items executed through any other agency. However, if the Engineer or the Employer so directs the Contractor shall be bound to carry out any such additional quantities beyond the limits stated above original quantities

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and or new items and the disagreement or the difference regarding rates to be paid for the same shall be settled in the manner laid down under the conditions for the settlement of dispute.

#### **4.8 Performance Bank Guarantee / Security Deposit**

- a) To fulfill the requirement of performance bank guarantee during the implementation period, the Successful Bidder (herein referred to as the “Contractor”) shall deposit **10% of the Contract Price** in form of FDR/ DD or unconditional and irrevocable Bank Guarantee bond issued by a scheduled bank in favour of Noida Metro Rail Corporation Ltd within 30 days from receipt of Notice of Award. For unsuccessful bidder, EMD shall be refunded without any interest. The Performance Guarantee should be valid for a period of 06 (six) months beyond the DLP. The performance guarantee should be issued by scheduled commercial bank from branch located in Delhi NCR, Noida or Greater Noida. Bidder should be ensured that issuing branch as well as encashment branch should be located in the area mentioned above. The bank guarantee shall be extended or renewed in advance before the expiry of existing Bank Guarantee in favour of NMRC.
- b) It is to note that if contract value increases by more than 25% of the original contract value, the performance bank guarantee shall be increased accordingly.
- c) A Contract agreement will have to be signed by the Contractor at his cost on proper stamp paper. Without performance guarantee by Contractor, Contract agreement shall not be signed.
- d) NMRC reserves the right for deduction of NMRC dues from Contractor’s Performance Bank Guarantee/ Security Deposit (interest free) for
  - (i) Any penalty imposed by NMRC for violation of any terms and conditions of agreement committed by the Contractor.
  - (ii) Any amount which NMRC becomes liable to the Government/Third party due to any default of the Contractor or any of his director/ employees/ representatives/ servant/ agent, etc.
  - (iii) Any payment/ fine made under the order/judgment of any court/consumer forum or law enforcing Contractor or any person duly empowered in his behalf.
  - (iv) Any outstanding payment/ claims of NMRC remained due after completion of relevant actions as per agreement.
- e) Once the amount under above Clause is debited, the Contractor shall replenish the Security Deposit/ Performance Bank Guarantee to the extent the amount is debited within 15 days period, failing which, it shall be treated as Contractor Event of Default and will entitle NMRC to deal with the matter as per the provisions of RFP and Contract Agreement.

#### **4.9 Contract during Proposal Evaluation**

- a) Proposals shall be deemed to be under consideration immediately after they are opened and until such time NMRC makes official intimation of award/ rejection to the Bidders. While the Proposals are under consideration, Bidders and/ or their representatives or other interested parties are advised to refrain from contacting by any means, NMRC and/ or their employees/

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representatives on matters related to the Proposals under consideration till the time Contract is awarded.

- b)** Any effort by a Bidder to influence NMRC in its decisions on e-Bid evaluation, e-Bid comparison or contract award may result in rejection of the Bidder's e-Bid.
- c)** In the event of any information furnished by the Contractors found false or fabricated the minimum punishment shall be debarred/ blacklisting and the legal proceeding may also be initiated.
- d)** If the Bidder wishes to bring additional information to the notice of NMRC, he/she can do so in writing. All correspondence/ enquiry should be submitted to the following in writing by fax/ post/courier:

**ED/NMRC**

**Noida Metro Rail Corporation (NMRC) Limited**

**Block-III, 3rd Floor, Ganga Shopping**

**Complex, Sector-29, Noida -201301**

**District Gautam Buddha Nagar, Uttar Pradesh**

**Email:** [nmrcnoida@gmail.com](mailto:nmrcnoida@gmail.com), [nmrcjgmelectrical@gmail.com](mailto:nmrcjgmelectrical@gmail.com),  
[nmrcrsandel@gmail.com](mailto:nmrcrsandel@gmail.com)

- e)** No interpretation, revision, or other communication from NMRC regarding this solicitation is valid unless in writing and signed by the competent authority from NMRC.

#### **4.10 Other Instruction**

- a)** Canvassing in connection with the tenders is strictly prohibited and the tenders, submitted by Bidder, who resort to canvassing, are liable to be rejected. EMD will be forfeited of those tenders who will be found non- serious and if it is felt by the tender committee that the Bidders submitted their tender only to influence the tendering process.
- b)** On acceptance of the tender, the name of the accredited representative of the Contractor, who would be responsible for taking instructions from the NMRC or the official deputed by NMRC, shall be communicated to the NMRC or the official deputed by NMRC in writing.

#### **4.11 Project Financial Terms**

- a)** The payment will be made on Quarterly basis as per the accepted rates based on the actual work carried out as per the Schedule of work (Bill of Quantity) after satisfactory verification by the users/engineer-in-charge from NMRC.
- b)** The payment will be made only for the work actually carried out as per the schedule of work (Bill of Quantity) completed & handed over to the user /engineer-in-charge
- c)** Income Tax is deductible at source while effecting payment of bills at the prescribed percentage as per the orders of the government.

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- d)** GST, if claimed, will be reimbursed only if the GST registration number is mentioned in the invoice. In the absence of GST registration number, GST will not be reimbursed. Further, GST will be reimbursed only when GST is reflected on the GST portal (GSTR2A of NMRC).
- e)** Quote PAN and GST on all correspondence, Bills, Vouchers and other documents otherwise TDS at higher of the prescribed rate will be deducted.
- f)** All payments to the contractors will be made by e-Payment /Account Payee Cheques. Quarterly payment shall be made on receipt of the bill complete & correct in all respect along with the supporting documents subject to deduction of statutory charges/taxes/duties/levies etc.
- g)** Bills, correct in all respect, shall be submitted to Engineer-In-Charge, in duplicate along with supporting documents, who will arrange payment through Departments of NMRC
- h)** No advance of any type shall be paid.
- i)** TDS on quarterly invoice of tenderer is deducted while processing quarterly bills as per Govt. Guidelines.
- j)** Supporting documents to be submitted by contractor along with quarterly bill as detail given in SCC.
- k)** No overtime is considered to achieve higher level of safety standards. The tenderer should consider execution of work in shifts as specified in the tender or desired by engineer in charge. The agency must ensure timely payment of salary, PF, ESI, etc. and prompt medical facility to sick/injured and to all staff.

## 5. Section 5: Special Conditions of Contract (SCC)

SCC Clause	Reference to GCC Sub-Clause No.	Description
1.1	Sub Clause 4.2.1	<p><b>PERFORMANCE SECURITY</b></p> <p>The successful tenderer shall furnish to the Employer a security in the form of a bank guarantee for an amount of 10% of the Contract value. The Performance security shall only be released after issuance of the performance certificate for the complete scope of work under the contract. No performance Security shall be released against part performance certificates issued by the Employer. If the contractor fails to submit the Performance bank guarantee as specified time limit i.e. within 30 days of receipt of NOA, quarterly running bill payment will be released to contractor by deducting 10 % of the payment amount from quarterly running bill.</p> <p>In case the contract value exceeds beyond 25% of the original contract value, the contractor shall have to submit additional performance security.</p>
1.2	Sub-Clause 4.3	<p><b>REPRESENTATION ON WORKS</b></p> <p>Contractor representative, The instructions given by the Engineer-In-charge or Engineer-In-charge's representative to contractor shall be complied immediately. The contractor shall not replace any of the deployed staffs for the work without permission of Engineer-In-charge.</p> <p>The contractor either himself or his nominated representative duly authorized-by the contractor shall be responsible to attend any exigency/emergency/attend meetings, to resolve all the issues related to satisfactory execution of the work.</p>
1.3	Sub-Clause 4.5	<p><b>SUB-CONTRACTOR</b></p> <p>Sub-contracting of whole work or any part of work shall not be permitted in the contract. If it will come to the notice of employer that the work or part of work has been subcontracted, the contract will be terminated and performance bank guarantee shall be forfeited and punitive action shall be initiated against the contractor.</p>

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1.4	Sub-Clause 4.10	<p><b>SUFFICIENCY OF ACCEPTED CONTRACT AMOUNT</b></p> <p>The Contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the Contract Price. Unless otherwise stated in the Contract, the Contract Price shall cover all his obligations under the Contract and all things necessary for Execution and Completion of the Works with High Quality Level.</p> <p>The contractor shall be deemed to have satisfied himself as the sufficiency of contract prices for the payments to employees towards compliance of minimum wages, PF &amp; ESI, etc.</p>
1.5		<p><b>PENALTY &amp; DEDUCTION:</b></p> <p>All corrective and break down maintenance as and when required and called for.  Response Time (Max.): 6 hrs (after registration of call)  Fault Attending Time (Max.): 24 hrs (after response time of 6 hrs)  Fault attending time for major breakdown like pumps not working, panel shut down due to switchgear issue etc: 48 hrs.</p> <p>(i) Call made before 15:00 hrs shall have to be attended on the same day.  (ii) Call made after 15:00 hrs shall be attended by 12:00 hrs on next day.  (iii) Emergency calls shall be attended on necessary priority basis.</p> <p>NMRC is a certified organisation for Environment, Health and safety. The work is to be carried as per international norms/standards and in such a manner that all premises always look neat &amp; clean. Similarly, the waste disposal is also carried out in totally sealed manner without affecting the environment.</p> <p>On completion of job (i.e. Preventive Maintenance and Unscheduled breakdown maintenance) service report, will be made by the contractor's service engineer and the same should be signed by both the service engineer and authorized customer's representative. One copy of the said service report will be handed over to the customer for their own records.</p> <p>Any spare part replaced during carrying out unscheduled breakdown maintenance clearly recorded in the service report.</p> <p>At the end of every quarter the contractor shall submit the details of unscheduled work/replacement carried out along with list of parts replaced/repared along with corrective measures under taken to prevent their occurrence. The payment against contract shall only be released after submission of duly filled preventive maintenance report.</p> <p>If any equipment is not rectified due to non-responsiveness within 24 hrs of registration of complaint the contractor shall be liable for penalty of Rs. 1000/day/complaint. (if the required spares is readily available).</p> <p>Repeated violations may result in termination of the contract and forfeiture of the PBG.</p> <p>a. In case of any damage to NMRC property done by any of the worker of the</p>

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		<p>contractor, the actual amount will be recovered or the contractor has to repair/replace such damage at his own cost.</p> <p>b. The penalties as prescribed above shall not relieve the contractor from his obligation to execute the works or from any other of his obligations and liabilities under the contract.</p> <p>c. It should be clearly understood that if, total penalty and deductions in any one year of the contract exceeds 25% of average annual value of contract, the contractor will be blacklisted from NMRC for participation in the similar category of works.</p>
1.6	Sub-Clause 4.14	<p><b>PROGRESS REPORTS</b></p> <p>The contractor shall attend a meeting with Engineer-In charge every month to elaborate the measures which the contractor proposes to take in order to improve the quality of work, efficiency, progress of the action items, progress of work, and compliance of safety audit report etc with release of MOM. The Contractor shall also submit to the Engineer-In-charge such other reports as may reasonably be required by him or any relevant authority or public body.</p>
1.7	Sub Clause 4.15	<p><b>EQUIPMENTS, MACHINERY AND PLANTS</b></p> <p>Contractor may note that no tools, spare parts, machinery, plant and equipment shall be supplied by the employer. The contractor has to arrange all tools, equipment machinery, spare parts, etc. and their transportation as required for the work under the contract.</p> <p>The plant, machinery and equipments brought for the execution of work, unless otherwise specified, shall be under ownership of contractor. Contractor shall not remove above plant, machinery and equipments without permission of Engineer-in-charge.</p> <p>The Engineer-in-charge shall not, at any time, be liable for the loss or damage to any of the contractor's Plant, Machinery, Temporary Works or materials.</p>



1.8	Sub Clause 4.16	<p><b>SAFETY</b></p> <p><b>A) SAFETY REQUIRMENTS</b></p> <p>The Metro Train Stations and Depot are having High Voltage Over Head Electric Lines, High Voltage Equipments, the movement of Trains in the depot, etc which can cause major injury, electrocution, death to the personnel and thus requirements for safety observance are very high.</p> <p>The contractor shall be responsible for ensuring the fitness and safety of all persons employed at work. In this regard, the contractor and deputed staff must ensure the observance of safety requirements. It shall be the sole responsibility of the contractor to adopt all the safety measures and deploy personnel who are adequately trained in safety.</p> <p>The contractor is responsible to ensure that necessary and adequate personal protective equipments are available at all the times for the service to personnel working. Contractor shall ensure to provide the Hi-Visibility/ Reflecting Jackets to all on site staff.</p> <p>It shall be the contractor's sole responsibility to make aware all his deployed staffs about the safety rules and procedure including Dos' and Don'ts' of working in the vicinity of 25 KV overhead Equipment.</p> <p><b>B) ACCIDENTS</b></p> <p>If any accident occurs due to execution of work or due to negligence on the part of the contractor's personnel it shall be the full responsibility of the Contractor. If any damage occurs to the structures/ material &amp; equipment as well as rolling stock, the cost of damage will be recovered from the contractor's bill.</p> <p>The firm must maintain a "Zero Accident Record". In case of any major accident /fatality a penalty of not exceeding 15% of total contract value will be levied. This penalty will be in addition to other penalties specified under the clause no 1.5 of SCC.</p> <p><b>C) TRAINING ON SAFETY</b></p> <p>Contractor will provide one day training on safety to contractor staff at site. Contractor shall obtain their assurance in the format prescribed by Engineer In-charge. Contractor shall submit the proof of this training and having obtained the assurance of all staff to Engineer In-charge. Without above training and having obtained proper proof of assurance, no staff will be deputed for work in NMRC.</p>
1.9	<b>Sub- Clause 4.17</b>	<p><b>PROTECTION OF THE ENVIRONMENT</b></p> <p>The Contractor shall maintain ecological balance by preventing deforestation, water pollution and defacing of natural landscape. The Contractor shall, so conduct his cleaning operations, as to prevent any avoidable destruction, scarring or defacing of natural surroundings in the vicinity of work. The contractor shall use the environment friendly material. The disposal of garbage shall be in</p>

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		environment friendly manner with proper segregation of biodegradable and non-biodegradable waste.
1.10	<b>Sub- Clause 4.18</b>	<p><b>ELECTRICITY AND WATER</b></p> <p>Electricity point and water shall be arranged by the employer.</p> <p>The contractor shall make his own arrangements to tap the Electricity from the nominated and existing sockets/ points. The contractor shall tap the Electricity as per IE Rules &amp; IE Act (Latest) duly complying all safety precautions and under following conditions:</p> <p>a) The contractor shall submit full scheme for the requirement of Electricity &amp; water. If scheme mentions Electricity requirement which is beyond the capacity of the Employer, in that case the contractor shall make his own arrangements/ alternative arrangements.</p> <p>b) The Contractor should make his own arrangements to draw the water from the available water point to the working place without affecting the premises.</p>
1.11	<b>Sub- Clause 4.27</b>	<p><b>SECURITY OF THE SITE</b></p> <p>Without proper permission, no staff shall be permitted to enter the premises.</p> <p>All vehicles used by the Contractor shall be clearly carrying the Contractor's name or identification document. If required by the Engineer, the Contractor shall submit a list identifying all persons to whom passes have been issued together with two photographs of each person and all entities to which a pass has been issued in respect of any vehicle and shall satisfy the Engineer of the bonafides of any such person or entity.</p>
1.12	<b>Sub- Clause 4.28</b>	<p><b>CONTRACTOR'S OPERATIONS ON SITE</b></p> <p>All of the contractor's staff shall follow the rules and regulations, procedures in the NMRC premises. The contractor shall make aware all of his staff for the same.</p>

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2.1	<b>Sub- Clause 6.2</b>	<p><b>RATES OF WAGES AND PAYMENT OF WAGES</b></p> <p>The wages considered in the tender are as Per Delhi schedule of rates (E&amp;M) 2018 which comply minimum wages as applicable at that time.</p> <p>The contractor shall pay the staff and labour as per the mentioned reference order. However if the new circular is received from the concerned authorities for revision of minimum wages during the currency or before finalization of the contract, the contractor shall be bound to implement the same immediately. Any variation in the rate of minimum wages/taxes will be dealt as per clause no 10 of SCC.</p> <p>In case of revision (increase or decrease) either in minimum wages and/or ceiling of Wage/Salary limit for payment of EPF &amp; ESI etc, and/or in the percentage value of contribution towards EPF &amp; ESI etc by government (state/union) then the Same will be compensated by NMRC as per clause 5.3 of SCC and contractor is bound to pay revised statutory charges/wages etc to workmen into without any deduction whatsoever. Any default in payment of wages less than statutory wages etc will be treated as fraudulent practice and action shall be taken against contractor for such fraudulent act in terms of contract/Indian Contract Act/Other applicable Law.</p> <p>The Contractor will ensure to open bank accounts for each worker employed by him and all the payments to workers will be released through bank accounts.</p> <p>In case to meet out any exigency/ emergency the payment to staff shall be made in cash in the presence of Engineer-In-Charge or his nominated representative. Non-compliance of Labour Law will attract penalty as per provision <b>in SCC Clause 1.5</b></p>
2.2	<b>Sub- Clause 6.4 &amp; 4.1</b>	<p><b>LABOUR LAW &amp; OBLIGATION OF CONTRACTOR</b></p> <p>In dealing with labour and employees, the Contractor shall comply fully with all laws and statutory regulations pertaining with engagement, payment and upkeep of the labour in India.</p>
2.3	<b>Sub- Clause 6.9</b>	<p><b>PROVISION OF EFFICIENT AND COMPETENT STAFF</b></p> <p>The personnel deployed for the electrical work should be qualified, trained, efficient, competent and quality conscious in the relevant work.</p> <p>Contractor shall submit the documentary evidence of formal training imparted to staff prior to deputing staff for work.</p>

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2.4	<b>Sub- Clause 6.10</b>	<p><b>PRESERVATION OF PEACE AND ORDERLY CONDUCT</b></p> <p>The contractor shall be fully responsible to ensure the discipline, and orderly conduct among the staff deployed for work. Smoking &amp; Consumption of Tobacco in any form is not allowed. The carrying and consumption of intoxicating liquor, drugs or other substances that may affect the proper performance is strictly prohibited in the depots. The Engineer-In-charge may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative who in the opinion of the Engineer-Incharge, persists in any misconduct, is incompetent or negligent in the performance of his duties, fails to conform with any provisions of the Contract or persists in any conduct which is prejudicial to safety, health, or the protection of the environment. Any claim or dispute arises due to removal of such person shall have to be dealt only by the contractor and employer shall not be the party to such action in any case.</p>
2.5	<b>Sub- Clause 6.11</b>	<p><b>LABOUR TO BE CONTRACTOR'S EMPLOYEE</b></p> <p>Labour deployed shall only be the contractor's employee. Deployment of labour hired through sub-contractor is not permitted. If any case of hiring of labour through sub-contractor comes to the notice of employer, then it shall be considered as the subcontracting of contract and action shall be initiated accordingly which may even lead to termination of contract.</p>
3 & 3.1	<b>Sub- Clause 7</b>	<p><b>WORK EXECUTION AND QUALITY CONTROL</b></p> <p><b>MANNER OF EXECUTION</b></p> <p>The contractor shall comply the schedules, procedures, methodology, work instruction given in technical specification and scope of work. The contractor shall use only the specified material and machines.</p> <p>If the contractor needs to change the any operation method then he has to take prior approval of the engineer In-charge.</p>
3.2	<b>Sub- Clause 7</b>	<p><b>INSPECTION</b></p> <p>The contractor monitor the quality of the work executed and fills up the check sheet and submits to the Engineer In-charge's representatives. The Engineer In-charge's representatives shall inspect and cross check the work for the quality and verify the work accordingly.</p> <p>The Engineer In-charge's representative shall also inspect and check for the compliance of contractor for the availability of proper and specified material, consumable, machinery, tools etc.</p> <p>Any shortcoming noted during such inspection shall be rectified by the contractor immediately failing which the penalty shall be imposed as per clause no. 1.5 of SCC.</p>

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4 & 4.1	Clause 8 & Sub Clause 8.2	<p><b>TIME MANAGEMENT</b></p> <p><b>COMPLETION PERIOD</b></p> <p>NOA will be given for three years. However, performance of contractor will be evaluated for continuation of the contract for one year at a time as per SCC clause 11.</p>
4.2	Sub Clause 8.7	<p><b>SUSPENSION OF WORK</b></p> <p>The work is of essential service required for the passenger. The suspension of work by the contractor or contractor's staff even for a single day may lead to heavy penalties on the contractor up to termination of contract and forfeiture of bank guarantee.</p>
4.3	Clause 10	<p><b>DEFECT LIABILITY PERIOD</b></p> <p>Defect Liability Period is 03 month after the date of issue of Taking Over Certificate for the Whole of the Works. After expire of DLP, Guarantee/Warrantee given by OEM of the parts shall also be extended to NMRC and relevant Guarantee/Warrantee document of such parts shall also be submitted to NMRC by the contractor before processing of the final bill.</p>
5.1	Sub Clause 11.1	<p><b>THE CONTRACT PRICE</b></p> <p>a) The contract price, subject to any adjustment thereto in accordance with contract conditions shall be inclusive of all taxes like GST, duties, levies, royalties Service Tax etc. or any tax in replacement of such taxes.</p> <p>Contractor will show the breakup of taxes in the invoices as quoted in BOQ while claiming payment as per tender conditions. He will have to maintain all records related to payment of taxes at his end for verification any time during the contract. The Contractor shall ensure full compliance with tax laws of India with regard to this contract and shall be solely responsible for the same. He shall keep the Employer fully indemnified against liability of all types of taxes, duties, levies etc.</p>
5.2	Sub Clause 11.1.1 & Sub Clause 11.1.4	<p><b>DUTIES, TAXES, ROYALTY ETC AND CHANGE IN TAXES/DUTIES</b></p> <p>A. The rates quoted by the tenderer for all materials, required to be purchased for the satisfactory performance of this contract, shall be deemed to be inclusive of all duties, taxes, octroi, GST, royalties rentals etc.</p> <p>The contract shall ensure full compliance with tax laws of India with regard to this contract and shall be solely responsible for the same. He shall submit copies of acknowledgement evidencing filling of tax returns every year and shall keep Employer fully indemnified against liability of taxes, duties, interest, penalty etc., of the Contractor's in respect thereof, which may arise.</p>

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		<p><b>B. Change in Taxes Duty</b></p> <p>a. "Change in Taxes/Duties/Levies" means the occurrence or coming into force of the following, at any time after the date of submission of tender/quotation.</p> <p>i Any new tax which is imposed on composite work contracts applicable on Metro Project.</p> <p>ii Change in the rate of GST on Composite work contract applicable on Metro Project as per GST act.</p> <p>b. The Contract Price shall be adjusted due to any of the above two conditions. Adjustment in contract price will be applicable up to the stipulated date of completion of work including extended period in case it is specifically mentioned that extension is granted with adjustment for changes as stated above.</p> <p>c. If the extension of contract period is on account of contractor's fault, no compensation shall be made towards upwards revision towards "change in Taxes/Duty (taking place during the said extended contract period)" as mentioned at Sl. No. (a) (i) &amp; (ii) above. Any benefit on account of downward revision towards "change in Taxes/Duty" as mentioned at Sl. No. (a) (i) &amp;(ii) above, during the original contract period or extended contract period shall be on employer's account.</p> <p>d. Any other changes (except on account of clause (a) (i)&amp;(ii) above) in existing taxes/new taxes on supply of materials/services/works etc. will not be considered and its impact shall be considered covered in the price variation clause 5.3 of SCC provided in the contract and in contract where price variation clause is not provided, the impact on any other change (except on account of clause (a) (i)&amp;(ii) above) in existing taxes/new taxes on supply of materials/services/works etc. will be deemed to be included in the quoted contract price.</p> <p>e. Also, the contract price shall not be adjusted on account of fluctuations in the rates of exchange between the foreign currencies of the contract and Indian Rupees from the last date of submission of tender.</p>
5.3	Sub Clause 11.1.3	<p><b>PRICE VARIATION</b></p> <p>This is fixed price contract and no Price variation is admissible in this contract except in case of NS/Extra items and rates will be taken from DSR in vogue.</p>
5.4	Sub Clause 11.2	<p><b>ADVANCE</b></p> <p>No advance shall be paid.</p>

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5.5	Sub Clause 11.6	<p><b>ON ACCOUNT PAYMENT APPLICATION FOR INTERIM PAYMENT CERTIFICATES</b></p> <p>Payment shall be made on Quarterly basis upon submission of Bills with requisite documents/details by contractor separately and bill will be verified by nominated Engineer In-charge. The value of all work done in accordance with the Contract, and the amount which is finally due, and for the purpose of On-account payment, the contractor shall submit detailed activities carried out as per BOQ recorded in Measurement sheets, Abstract sheets along with recorded bill for the item actually executed for checking and payment. Payment will be effected based on unit rates as approved in the Bill of Quantities.</p> <p>The contractor shall submit the check sheets, Service Sheets etc duly signed by the Engineer-In-charge's representative for work done.</p> <p>If any activities are not carried out as per the schedule of work, the proportionate amount will be deducted from the bill. If the work carried out through other agency under the intimation to contractor and the charges incurred on it will be deducted from the contractor's bill. In addition the applicable penalty will be levied as per Special Condition of Contract.</p>
5.6	Sub Clause 11.15	<p><b>TAX DEDUCTION AT SOURCE</b></p> <p>Tax deduction at source from each on-account progress bill shall be made by employer as per the provisions of the statutes/acts of statutory bodies/local authorities etc.</p>
5.7	Sub Clause 12.6	<p><b>PAYMENT IN APPLICABLE CURRENCIES</b></p> <p>Payment shall be done in INR only.</p>
6.1	Sub Clause 14.1	<p><b>INDEMNITY</b></p> <p>Contractor shall submit the indemnity bond such that the contractor's staff shall not claim any type of payment, employment etc. with employer. After completion of contract the contractor shall withdraw all of his staff from the site without any claim.</p>
6.2	Sub Clause 14.2	<p><b>USE AND CARE OF SITE</b></p> <p>The Contractor shall not demolish, remove or alter structures or other facilities on the site without prior approval of the Engineer-In-charge. All surface and sub-soil drains shall be maintained in a clean, sound and satisfactory state of performance.</p>

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7.1	Sub Clause 15.3	<p><b>THIRD PARTY INSURANCE</b></p> <p>The Contractor shall insure against liability to third parties in the joint names of the Employer, the Contractor for any loss, damage, death or bodily injury which may occur to any physical property (except things insured otherwise) or to any person (except persons insured by the employer, staff of other contractors working in the premises, contractor staff under Sub-Clause 7.2), which may arise out of the performance of the Contract. The insurance shall be at least for the amount Rs. 7.5 Lakhs for each incident with number of incident unlimited.</p>
7.2	Sub Clause 15.4	<p><b>INSURANCE (IN PLACE OF GCC CLAUSE 15) INSURANCE FOR WORKERS</b></p> <p>All of the contractor staff shall have to be covered under ESI. The contractor shall take insurance policy as specified in the workmen's compensation act for the contractor's staffs those are not covered by the ESI.</p> <p>Insurance cover for contractor's all risk shall be full value of contract price.</p>
8	Additional	<p><b>GENERAL CONDITIONS OF CONTRACT</b></p> <p><b>a.</b> This contract will be governed by NMRC's General Conditions of Contract and Special Conditions of Contract. The later will have priority over the earlier one in case of any ambiguity in any of the clause.</p> <p><b>b.</b> All conditions mentioned in the General Conditions of Contract (GCC) will be applicable in addition to above.</p>
9	Additional	<p><b>SUBMISSION BY CONTRACTOR ALONG WITH QUARTERLY BILL</b></p> <p><b>a. Labour Law Registers:</b> Maintain registers under various labour laws rules 2017 i.e. employee Register (Form-A), Wage Register (Form-B), Register of Loan/ Recoveries (Form- C), Attendance Register (Form-D) etc. And show all these registers to Engineer Incharge.</p> <p><b>b.</b> Proof of Compliance of provision of EPF: EPF should be ensured on all workers, for this separate Electronic-Challan-Cum-Receipt (ECR) for this contract shall be furnished by contractor along with challan.</p> <p><b>c.</b> Proof of Compliance of provision of ESI &amp; Workmen compensation act etc.: ESI should be ensured on all workers, for this Electronic-Challan- Cum-Receipt (ECR) shall be furnished by contractor along with challan for this contract. Copy of the ESI card of all workers shall be submitted within time by Contractor.</p> <p><b>d.</b> Proof of Compliance of Minimum wages act: Compliance of minimum wages is of prime importance, for this muster roll to be maintained as per actual available manpower on each day. Accordingly wage register to be</p>



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		<p>maintained after considering the latest minimum wages of each category of staff. The wages of every person employed against the contract shall be paid before expiry of the 7th (Seventh) day of the wage period. For this muster roll, wage register &amp; proof of payment of wages shall be submitted along with each quarterly bill.</p> <ul style="list-style-type: none"> <li>e. Proof of Compliance of provision of insurance policies as per SCC clause 7.1 &amp; 7.2.</li> <li>f. Certificates by contractor for compliance of labour laws on desired format</li> <li>g. Monthly Summary of work done.</li> <li>h. Month wise work/activities verified by building authority.</li> <li>i. Material consumption detail.</li> <li>j. GST declaration on desired format of NMRC.</li> <li>k. Other documents as desired by NMRC time to time.</li> </ul> <p>Note: All the above documents to be submitted on the formats as desired by NMRC. Formats may be changed any time on the discretion of NMRC to suit the requirement.</p>
10.1	Additional	<p><b>MATERIALS</b></p> <p>The contractor shall use the materials, consumables as specified in the technical specification and scope of work. The Contractor has to arrange all materials, consumables required for the work. Supply of material by the contractor will be checked and verified by the NMRC representative for quality and quantity. The total quantity used during the month will also be verified by the NMRC representative. The contractor shall be responsible for the custody of the material to be used during operations.</p>
10.2	Additional	<p><b>PHOTO IDENTITY CARDS</b></p> <p>A photo I card signed by contractor and authorized signatory of NMRC shall be provided to all deputed staff and contractor representatives.</p>

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10.3	Additional	<p><b>ENTRY EXIT PASS</b></p> <p>The Engineer-In-charge shall provide the photo entry exit pass to the staff deputed after submittal of antecedent check, police verification, contractor's photo identity card and indemnity bond by the contractor.</p> <p>Centralised cell of NMRC shall provide the photo entry/exit pass to the outsourced/contractor staff deputed for contract work in NMRC premises. Hence Contractors are requested to submit the C &amp; A verification form of all staff engaged in NMRC immediately after issue of the 'NOA', to the office of NMRC.</p> <p>Verification and for the purpose of issue of entry exit pass from NMRC before start of work.</p>
10.4	Additional	<p><b>COMMUNICATION FACILITIES TO STAFF</b></p> <p>The contractor shall provide the mobile phone communication facilities to supervisor and staff deputed at site, The mobile number shall be provided to Engineer-In-charge.</p>
10.5	Additional	<p><b>WORK TIMINGS</b></p> <p>Based on actual need, contractor may need to work in one or more shifts and payments shall be made accordingly. The shift timings may be different for different buildings/ Premises. Similarly different buildings may work in one or more shifts.</p>
11	Additional	<p><b>EVALUATION SYSTEM FOR PERFORMANCE OF CONTRACTOR AS PER CHECKSHEET GIVEN:</b></p>

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**CHECK SHEET FOR EVALUATION OF PERFORMANCE OF CONTRACTOR:  
MONTH/ YEAR**

<b>S.N.</b>	<b>Parameters</b>	<b>Conditions</b>	<b>Max. Marks</b>	<b>Penalty clause(Marks awarded to Contract)</b>	<b>Marks Obtained</b>
1.	ESI & EPF facility	Details submission of ESI & EPF (Employer & Employee ) contribution of each Employee	10	Note: 1 mark to be deducted for each 10% Non compliance of ESI & EPF facility.	
2.	Quality of work	Effective and Qualitative work.	10	Note: 1 mark to be Deducted for each instance of non-compliance.	
3.	Response of Official correspondence	Time bound Response of official correspondence at all occasions (Within 7 working days )	10	Note: 1 mark to be deducted for delay of each working day.	
4.	Provide first aid facilities to staff	First Aid Box to be provided and maintained at site.	10	Note: 1 mark to be deducted for any shortage during each inspection.	

**Overall performance shall be judged on the marks obtained by contractor**

**Note:**

- A. Minimum 06 marks have to be obtained in all above activities in every check**

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S.N.	Marks Obtained	Overall Performance clause
1	<b>Upto 50 %</b> - On three consecutive checks	<b>Poor</b> – Engineer in-charge to issue warning letter to the contractor at the <b>end of first check</b> for improvement. If, no improvement for next two checks then Engineer in-charge shall issue “ <b>contract termination notice</b> ” and prepare for new contract.
2	<b>Above 50% and up to 80%</b> -On three consecutive checks	<b>Good-</b> Engineer in-charge to issue warning to contractor to improve. Three successive warnings will be considered as poor performance of contractor and action as per overall performance clause (S.No. 1) shall be taken.
3	<b>Above 80% -</b> 80% of contract period	<b>Very Good-</b> Contractor is recommended to continue to work for next one year.

## **6. Section 6: Employer's requirement**

### **6.1 Objective**

- a) The objective of the contract is the **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years** In full recognition of this objective, and with full acceptance of the obligations, liabilities and risks which may be involved, the contractor shall undertake the execution of the Works.

### **6.2 General**

- a) **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years** shall be of highest standards available using proven up-to-date good Engineering practices. The Specification shall in any case not specify standards which, in the Engineer's opinion, are less than or inferior to those described in the Technical Specifications contained in the Tender Documents.
- b) Contractor will have to develop strong service network and should have well qualified trained maintenance team for E&M system.
- c) The Maintenance team should be well equipped with requisite tools and testing instruments to trouble shoot the defective equipment and check the functionality & performance of the system.
- d) The location of service centre & store would be well notified by the contractor to NMRC and authorized representative of NMRC will have full authority to inspect service centre and the store for inspection of availability of required spares, consumables, tools and testing instruments. The testing instruments and measuring instruments should be calibrated.
- e) Contractor will have to maintain sufficient stock of all type of spares and consumables in stock in store required to maintain all the E&M system included in the scope of work. The spares and consumables consumed should regularly be recouped to ensure the availability of all the spares and consumables. Contractor shall submit the details of all spares and consumables available in the stock on quarterly basis.
- f) Scrap materials: Scrap materials, if any shall be retained by NMRC.
- g) The manpower can also be deployed during OFF days/holidays/Night hours etc. as per requirement and for which nothing shall be paid extra.
- h) Any damage/breakage to the NMRC properties during the execution of works will be at the risk & cost of the contractor and in this regard, decisions of NMRC will be final & binding regarding amount of damage/breakage etc. the amount will be deducted from Contractor's bills.
- i) Payment shall be made by NMRC quarterly after completion of work. No advance payment shall be made against this contract.
- j) The Contractor shall have to deploy multiple work force/teams at different sites simultaneously as per requirement and nature of job.

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- k) The tenderer may visit the sites before submitting the offer.
- l) **Also, to ensure that original spare parts are used following course of actions will be ensured:**
  - o **The invoice of spare parts from OEM or its authorized dealer is required to be submitted by the contractor before replacement.**
  - o **Engineer representative at site shall check the spare parts and related documents.**
- m) The contractor shall be responsible to complete the entire work in all respects as mentioned in BOQ and any of the work necessary to complete the job though specifically not covered in the scope of work above.
- n) Cost of any damage/ loss of company property by the contractor shall be recovered; NMRC Decision in this regard will be final, binding & conclusive.
- o) Scrap as hazardous/zero value scrap material shall be disposed off by the contractor as per the government guidelines.
- p) All expenses towards mobilization and demobilization of equipment at the site, work forces, materials dismantling the equipment, clearing the site etc, shifting and installing back at the site after its normalisation, shall be deemed to be included in the prices quoted in BOQ.
- q) The Tenderer is advised to visit and examine the system and its surroundings at his/their cost and obtain for himself on his own responsibility the information that may be necessary for preparing the tender and entering into the contract. The agency shall be deemed to have inspected the site and its surrounding before and taken into account all relevant factors pertaining to the site in preparation and submission of tender.
- r) NMRC is a certified organisation for Environment, Health and safety. The work is to be carried as per international norms/standards and in such a manner that all premises always look neat & clean. Similarly, the waste disposal is also carried out in totally sealed manner without affecting the environment.
- s) On completion of job, service report will be made by the Contractor's service engineer and the same should be signed by both the service engineer and authorized customer's representative. One copy of the said service report will be handed over to the customer for their own records.
- t) All kind of minor/ major repair/rectification/modification in the system for mentioned locations of employer requirement of NMRC network as per terms and conditions of tender document.

### 6.3 Technical Specifications

**Preferred/ Recommended make of materials apart from the one mentioned in BOQ**

<b>S. No.</b>	<b>Description of items</b>	<b>Makes</b>
1	GI Conduits	BEC, AKG, steelcraft
2	Copper conductor FR PVC Insulated Wires ISI Marked	Polycab, KEI, Finolex, Havels, Bonton
3	Modular system switches, sockets outlets and wiring accessories with moulded cover plate	Crabtree, MK Electric, CPL Obsession, Legrand, Schneider, ABB
4	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Crabtree, MK Electric, CPL Obsession, Legrand, Schneider, ABB
5	Lights fittings	Philips, Bajaj, Crompton, Wipro
6	Ceiling fan of 5 star rating and Accessories, Metal EXHAUST FAN.	Crompton, Bajaj, Orient, Havells, Khaitan
7	Distribution board	L&T, Hager, Legrand, Siemens, Schneider, ABB
8	RCBO/RCCB	L&T, Hager, Legrand, Siemens, Schneider, ABB
9	Miniature Circuit Breakers (MCB)	L&T, Hager, Legrand, Siemens, Schneider, ABB
10	Meters (digital)	MECO, DUCATI, ALLEN, Scheinder,
11	Supply of 400 mm sweep wall mounted fan with Regulator	Crompton, Bajaj, Orient, Havells, Khaitan
12	XLPE armoured FRLSH cable	Finolex, KEI, Havells, Asian/RPG, Bonton, cords cable, polycab
13	Cable joints	Denson, M3, Mahindra, comet, dowells, jainson
14	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	MEM, BEC, Indiana
15	Perforated Hot Dipped Galvanised Iron cable tray	MEM, BEC, Indiana
16	Copper/Aluminium (crimping type) cable lugs for 1100 volts grade cables	Comet, Dowells, Jainson
17	fire resistant Insulation tape 25mmX25 meter Roll	Flexsteel, steelgrip, nippon

NOTE: The make of material shall be the one mentioned in BOQ and where not specified preferred makes will be considered.

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There may be more component/subcomponents/sub-system associated with which are not specified in technical specification, but same are deemed to be covered under contract.

#### **6.4 Scope/work covered in contract:**

##### **a) Brief Scope:**

This contract is for “**Rate Contract for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**”. The Scope of Work will include but not be limited to:

##### **I) Schedule A : Works**

##### **1. Fire fighting and other domestic water pumps installed at 21 stations and RS Depot :**

- (i)** The repair/breakdown work shall be done as per BOQ and employer's requirement.
- (ii)** Lifting, dismantling, transporting to & fro from site to works, and lowering of various pumps testing & commissioning complete is as required.
- (iii)** All repair work shall normally be carried out in day time except at sometimes when maintenance/repair shall be done only in non-revenue hours (night hours i.e. 00:00-04:00) but nothing shall be paid extra on this account.
- (iv)** The scope of work includes dismantling, rewinding, repairs, testing, installation and alignment of motors & pumps as mentioned in BOQ.
- (v)** All expenses towards mobilization and demobilization of equipment at the site, work forces, materials dismantling the equipment, clearing the site etc, along with motor removal, shifting and installing back at the site after its normalisation, shall be deemed to be included in the prices quoted in BOQ.
- (vi)** Old Spare parts after replacement in pumps shall be hand over to NMRC by the contractor.
- (vii)** Minor repairs of pumps shall be carried out at site. In case of major repair of pumps such as rewinding, replacement of cutter, shaft, casing, etc. pump may be taken to contractor's workshop.
- (viii)** Rewinding of LT motors of NMRC shall be done as per information detailed below:
  - a)** Rewinding of single or three Phase motors of various ratings as per BOQ.
  - b)** The rewinding works includes supply of all materials like wires, insulating papers, varnish, sleeves, hardware suitable to cable lugs for above work.
  - c)** The form and the manner and other technical details such as size, number of turns, pitch etc. shall be exactly identical to that original motor under rewinding.
  - d)** Testing: Contractor will carry out no load and other routine test on rewound motors. If required, NMRC Engineer shall witness the tests carried out at works. Following tests in general shall be carried out on motors.



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- The winding shall be tested for high voltage test of 2 kV AC for one minute.
  - Winding resistance/ continuity of each phase shall be measured.
  - No load running of the motor. No load current in all the three phases shall be within  $\pm 5\%$  limit.
- e) Super enamelled copper winding wire of suitable gauge make HTP/ Usha / Devidayal /Milan having ISI certifications is to be used for rewinding.
- f) Insulating varnish of Dr. Beck shall be used.
- g) Insulation class of insulation material (like copper wire, varnish & insulation paper etc.) shall be of the same class of the motor being re-winded or higher.
- h) Mechanical seal. Mechanical seal of Eagle Burgeman, Leakproof, Johncrane & Grundfoss are to be used.
- i) Make of Bearings. Bearing of SKF/FAG/NSK/NTN/NBC make are to be used as replacements.
- j) If any fan/motor/pump found un-repairable, contractor will clarify the same and no cost to repair/rewinding will be paid to the contractor.
- k) Paint and Primer. Superior quality enamel paint of make Asian/ Berger/ ICI/ Nerolac or equivalent is to be used.

## **2. Cables**

The cables shall be 1100 Volt grade XLPE insulated with PVC inner sheath, steel armouring and with an outer protective sheath of flame retardant low smoke and halogen(FRLSH) compound, conforming to IS: 7098 (Part I). Cables shall have high conductivity stranded aluminium or copper conductors and cores colour coded to the Indian Standards.

## **3. Protective Earthing**

- (i) Indian TNS system of earthing as shown on IS: 3043 - 1987 shall be followed for the entire installation under the scope.
- (ii) The strips to be used shall be in maximum lengths available as manufactured normally avoiding unnecessary joints.
- (iii) The following standards and rules shall be applicable:
  - a) IS:3043 - **1987: Code** of Practice for Earthing.
  - b) IEEE 80: **2000 : Guide** for Safety in AC Substation Grounding.
  - c) BS 951 : Electrical Earthing. Clamps for earthing and bonding. Specification.
  - d) **BS 7430:** Code of practice for protective earthing of electrical installations.
- (iv) All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Indian Standard Code of Practice or the British Standard Code of Practice in the absence of Indian Standards.
- (v) The resistance of each earth station should not exceed **1  $\Omega$** .
- (vi) After any earthing work earth resistance is to be measured by the contractor in presence of NMRC representative. Arrangement of standard tools for the same will be in the scope of the contractor.

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**Note:** - All joints and connection between dissimilar metal should be done by providing bimetallic conductor /plate as required of equivalent area/ cross section.

#### **4. LIGHTNING PROTECTION**

Protection of buildings against lightning shall be done in accordance with IS 2309 - 2005 and include the provision of a parallel path lightning system complete with air terminal conductors, ground terminals, interconnecting conductors and other fittings required for the complete system.

- (i) **Air terminations:** The air termination shall be multiple point type of material as per BOQ & standards. The stem and multi-point head shall be erected on the roof with a 150 x 150 x **6mm** stainless steel (SS) base plate with a threaded socket of the same material welded to it. The base plate shall be embedded in a concrete block to hold the elevation rod in a vertical position. The elevation rod shall be one single rod without any joints.
- (ii) The earth terminals and earth leads shall be as specified for earth station and earthing leads under section ' PROTECTIVE EARTHING'.
- (iii) In general the down conductor shall follow the most direct path possible between the air termination and the earth termination. The down conductor shall be free of sharp bends, upturns and kinks and clamped to the stem of the air termination by means of gun metal clamps. Each down conductor shall have an independent earth termination. Minimum size of the down conductor shall be 25 x 3 mm stainless steel (SS).
- (iv) The down conductor shall be clamped to the building outer wall at 600-mm centers. Joints in the down conductors shall be avoided as far as possible. However, in any case, joints shall not be made below ground level. Where joints are made care shall be taken so as to exclude any moisture. Bimetallic connectors shall be used where dissimilar metals are to be jointed. All joints shall be tinned, soldered or double-riveted.
- (v) A testing link shall be provided for each down conductor as per standards.
- (vi) Testing: The entire installation shall be tested in accordance with the Indian Standard Code (IS 2309) and the ground resistance values shall be recorded for earthing Terminal (each) and earthing system (as a whole).

#### **5. Supply, installation & repair of Fans:**

- (i) Uninstalling, transporting to & fro from site to works, and installation & Commissioning complete as required.
- (ii) Servicing the uninstalled fan with washing & cleaning, checking all nut bolts, replacing quarter pin and oiling /greasing & testing complete.
- (iii) Rewinding of any Ceiling fan, exhaust fan & bracket fan by using super enamelled copper wire and overhauling and putting in working order condition.
- (iv) Replacing the bearing /bushing of Ceiling fan, exhaust fan & bracket fan and putting the fan in working order.
- (v) Replacement of faulty condenser/fan regulator for fan slow fault with new condenser (Make: Keltron / Tibcon / Universal) /regulator.
- (vi) All supplied materials, rewinded Fans and Motors should be covered by SIX months Guarantee.

## **6. Cable Trays**

- (i) Trays shall not have sharp edges, burrs or projections injurious to cable insulation.
- (ii) Trays shall include fittings such as bends, risers etc, for changes in direction and elevation.
- (iii) Trays shall be supported adequately at minimum 1 m distance from the building structure by means of painted I galvanized (as specified) MS structural members secured to the structure by dash fasteners or by grouting.
- (iv) Cable tray shall be required to be marked for identification as approved by engineer/employers representative.

**NOTE: For all other items International standards or Indian standards of electricity will be applicable.**

## **II. Schedule B : Critical spares**

1. The contractor shall furnish test certificates of the materials procured for the work. Testing of materials shall also have to be done at contractors cost as and when necessary and required by the Engineer. If the test result of any material does not comply with the results stipulated in the relevant latest IS code, the materials shall be rejected and no claim shall be entertained on any account what so ever. All the rejected material should be removed from the site of work, without delay.
  2. Where manufacturer have furnished specific instructions relating to the materials used in this job and covering points not specifically mentioned in these documents, manufacturer's instructions shall be followed.
  3. The electrical switchgear items must comply following standards:
    - a) ISO 9001: Quality systems- model for quality assurance in design/development, production, installation and servicing.
- ❖ **IEC Standards**
- a) **IEC 60255** : Measuring relays and protection equipment.
  - b) **IEC 60529**: Degrees of protection provided by enclosures (**IP Code**).
  - c) **IEC 60898** : Electrical accessories - Circuit-breakers for over current protection for household and similar installations.
  - d) **IEC 60947-6-1/EN 60947-6-1**: Specification for low-voltage and control gear Multiple function equipment. Automatic transfer switching equipment.
  - e) **IEC 60947-21EN 60947-2**: Specification for low-voltage switchgear and control gear circuit breakers
  - f) **IEC 60947-1**: Specification for low-voltage switchgear and control gear. Contactors and motor starters. Electromechanical contactors and motor-starters.

- g) IEC 61008:** Residual current operated circuit breakers without integral over current protection for household and similar uses (RCCBs).
- h) IEC 61439-31EN 61439-3:** Specification for low-voltage switchgear and control gear assemblies, Particular requirements for low-voltage switchgear and control gear assemblies intended to be installed in place.
- i) IEC 61439:** Specification for low-voltage switchgear and control gear assemblies.
- j) IEC 62262:** Degrees of protection provided by enclosures for electrical equipments against mechanical impacts (IK code).
- k) IEC 61641:** Enclosed low voltage switchgear & control gear assemblies- Guide for testing under conditions of arcing due to internal fault.

❖ **IS standards**

- a) IS 13779:** AC static wattmeters, class 1 & 2.
- b) IS 13947-5-2:** Low-Voltage Switchgear and Control gear, Part 5: Control Circuit Devices and Switching Elements, Section 2: Proximity Switches.
- c) IS 13947-5-1:** Low-Voltage Switchgear and Control gear, Part 5: Control Circuit Devices and Switching Elements, Section 1: Electromechanical Control Circuit.
- d) IS 13947-4-1:** Low-Voltage Switchgear and Control gear: Part 4 - Contactors and Motor-Starters.
- e) IS 13947-3:** Low voltage switchgear and control gear, part 3: switches, disconnectors, switch disconnectors and fuse combination units.
- f) IS 13947-2:** Low-Voltage Switchgear and Control gear, Part 2: Circuit Breakers.
- g) IS 13947-1:** Low-Voltage Switchgear and Control gear, Part 1: General Rules.

❖ **BS standards:**

- a) BS EN60742, BS 3535, BS 61558:** Isolating Transformers.
- b) BS EN 50525:** Electric cables. Low voltage energy cables of rated voltages up to and including 450/750 V (UO/U)

**Note:** Unless specified otherwise, the latest version of the standards shall be applicable

- All corrective and break down maintenance shall be done by the contractor as and when required and called for.
- Maximum permitted time to rectify the faults is as per the table given below:-
  - (i) Call made before 15:00 hrs shall have to be attended on the same day.
  - (ii) Call made after 15:00 hrs shall be attended by 12:00 hrs on next day.

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- (iii) Emergency calls shall be attended on necessary priority basis.
- (iv) The vendor must have a customer care centre (24X7) where the complaints can be registered on call and the complainant can get the complaint registration number.

**Terms and Condition:**

<b>S. No.</b>	<b>Description</b>
1	Tenders are called from the electrical contractor complying with eligibility criteria of work experience.
2	Material shall be ISI marked and out of make as specified in the list of preferred makes for which decision of NMRC shall be final and binding.
3	Quoted rates shall be valid for 180 days from the date of submission of price bid for process of tender document & issue NOA from NMRC.
4	Time period of completion shall be 3 years from the date of award of contract. The work shall be carried out as per direction of NMRC for the items as and when required during contract period of three years.
5	If any electrical work required by NMRC during the currency of contract and item is not available in the contract the same shall be executed as per direction of NMRC and the payment shall be made in the contract as an extra item and the rates shall be work out in priority as below and the same shall be acceptable and binding to contractor. However the amount of extra items shall not be exceeded 25% of the total contract value. <ul style="list-style-type: none"><li>a. AS per CPWD DSR 2018 if the item is available in CPWD 2018/latest.</li><li>b. AS per UPPWD DSR 2016 if the item is available in UPPWD DSR 2016/latest.</li><li>c. AS per current market rates analysis approved by NMRC.</li></ul>
6	Payment shall be made as per actual work done.

## **7. Section 7: Draft Contract Agreement**

THIS AGREEMENT made on the .....day of ..... 2024 at Noida, District Gautam Budh Nagar, Uttar Pradesh Between **Noida Metro Rail Corporation Limited** (Hereafter referred to as "NMRC"), a company incorporated under Companies Act 2013, vide corporate identification Number: U60231UP2014SGC066849 and having its registered office at **Block-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida -201301, District Gautam Budh Nagar, Uttar Pradesh, India** represented by ..... of the company, by virtue of his designation and authorization by **Shri/Smt. ...., Managing Director, NMRC** (hereinafter called as the "Employer"), which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include its successors and permitted assigns) of the one part,

**AND** .....having its registered office at.....represented by.....(herein after called the "**Contractor**", which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include its successors and permitted assigns) of the other part. WHEREAS the Employer desires that the Works known as the "**.....**" should be executed by the Contractor, and has accepted a contract by the Contractor for the execution and completion of these Works.

The Employer and the Contractor agree as follows:

- 1) In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
- 2) The following documents shall be deemed to form and be read and construed as part of this Agreement -

### **Reference:**

- (i) Tender No. .... Dated .....
- (ii) Bid Documents duly accepted and submitted by ..... dated .....
- (iii) The Bidding Documents which include all the Sections specified below:
  - a. Section 1: General Information
  - b. Section 2: Terms of Reference
  - c. Section 3: Instructions to Bidders
  - d. Section 4: Qualification, Evaluation and Selection Process
  - e. Section 5: Special Conditions of Contract
  - f. Section 6: Technical Specifications
  - g. Section 7: Draft Contract Agreement
  - h. Section 8: Appendix and Forms
  - i. General Conditions of Contract (GCC)
  - j. Amendment/ Modification, if any

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- (iv) Notice of Award ( ..... ) issued by NMRC
- (v) Letter of Acceptance of NOA (.....) given by..... to NMRC
- (vi) Any other admitted correspondence documents between NMRC and the Bidder.

**3) Duration of Contract**

The Corporation intends to appoint a Contractor to NMRC for a period of 3 (Three) years.

**4) Price Schedule**

NMRC shall consider the following Total Contract Price, as quoted by the Contractor as part of financial bid.

- 5) The courts at District Gautam Buddha Nagar, Uttar Pradesh shall have the exclusive jurisdiction to try all disputes arising out of this agreement between the parties.
- 6) In consideration of the payments to be made by the Employer to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract and Notice of Award issued.
- 7) The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract and NOA.

IN WITNESS where of the parties hereto have caused this Agreement to be executed in accordance with the laws of India on the day, month and year specified above.

For and on behalf of the Contractor  
Signature of the authorized official

For and on behalf of the Employer  
Signature of the authorized official

*Name of the official*

*Name of the official*

Stamp/Seal of the contractor  
the presence of:

Stamp/Seal of the Employer In  
In the presence of:

Sign of Witness 1 \_\_\_\_\_

Sign of Witness 1 \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

Sign of Witness 2\_\_\_\_\_

Sign of Witness 2\_\_\_\_\_

Name\_\_\_\_\_

Name\_\_\_\_\_

Address\_\_\_\_\_

Address\_



## 8. Section 8: Appendix and Forms of Tender

### 8.1 Appendix 1: Metro Alignment

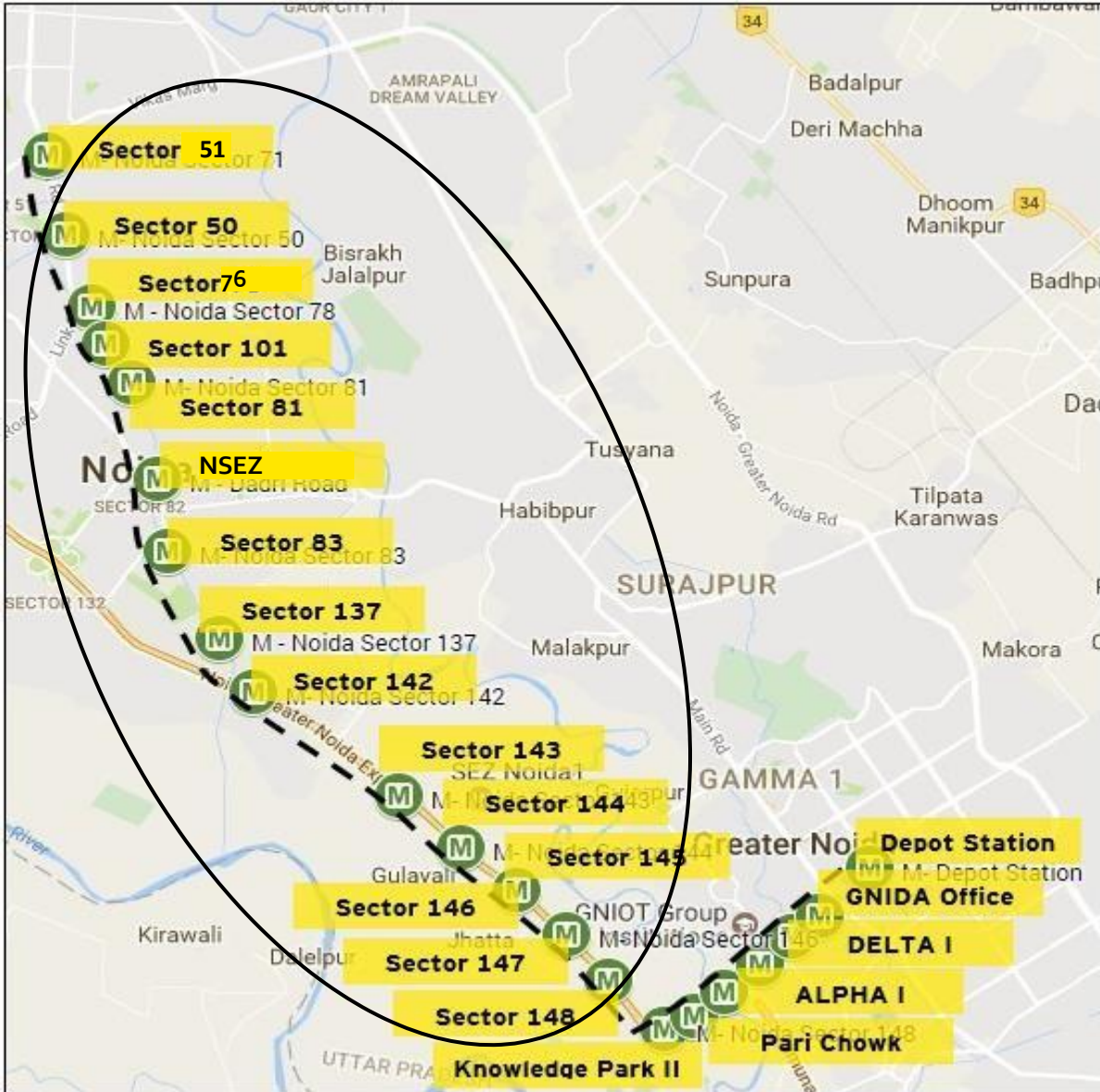


Fig: N-GN Metro Line

Please Note: The map shown above is indicative (not to scale)

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>S.NO.</b>	<b>Name of the Station</b>
1.	Sector 51 Station
2.	Sector 50 Station
3.	Sector 76 Station
4.	Sector 101 Station
5.	Sector 81 Station
6.	NSEZ Station
7.	Sector 83 Station
8.	Sector 137 Station
9.	Sector 142 Station
10.	Sector 143 Station
11.	Sector 144 Station
12.	Sector 145 Station
13.	Sector 146 Station
14.	Sector 147 Station
15.	Sector 148 Station
16.	Knowledge Park II Station
17.	Pari Chowk Station
18.	ALPHA I Station
19.	DELTA I Station
20.	GNIDA Office Station
21.	Depot Station

## **Appendix 2: Quality Assurance**

The Contractor shall implement a Project Quality Management Plan in accordance with ISO9001 "Quality System - Model for Quality Assurance in Design/Development, Production, Installation and Servicing" to ensure that all materials, workmanship, plant and equipment supplied and work done under the contract meets the requirements of the contract. This plan shall apply to all activities related to the quality of items, including designing, purchasing, inspecting, handling, assembling, testing, storing, and shipping of materials and equipment and different elements of maintenance work and installations of system components.

The Quality Plan to be prepared by the Contractor and submitted to the Engineer shall follow the requirements of ISO 9000 and address each element therein.

Registration of the Contractor's organisation, or subcontractors or sub-consultants is not required for this Project but the Project Quality Management Plan as submitted shall meet the intent of the ISO 9000 requirement in that there is a comprehensive and documented approach to achieving the project quality requirements.

### *Quality Assurance Management Plan*

The Project Quality Management Plan (PQMP) shall as a minimum address the quality system elements as required by ISO 9001, generally noting the applicability to the Contractor's Works Programme for the Project. Procedures or Quality Plans to be prepared by others (Suppliers, Subcontractors, and Sub-consultants) and their incorporation in the overall PQMP shall be identified.

The Contractor shall provide and maintain a Quality Assurance Plan (QA) to regulate methods, procedures, and processes to ensure compliance with the Contract requirements. The QA Plan, including QA written procedures, shall be submitted to the Engineer for his review.

Adequate records shall be maintained in a readily retrievable manner to provide documented evidence of quality monitoring and accountability. These records shall be available to Employer at all times during the term of the Contract and for a five year period thereafter.

The Plan shall identify:

- a) Design Process: that control, check and verify the accuracy, completeness and integration of the design shall be performed by certified personnel and in accordance with documented procedure that have the written consent of the Engineer.
- b) Special Processes: that control or verify quality shall be performed by certified personnel and in accordance with documented procedures that have the written consent of the Engineer;
- c) Inspection and Test: Inspection and testing instructions shall provide for reporting nonconformance's or questionable conditions to the Engineer; Inspection shall occur at appropriate points in the installation sequence to ensure compliance with drawings, test specifications, process specifications, and quality standards. The Engineer shall designate, if necessary, inspection hold points into installation or inspection planning procedures;

- d) Receiving Inspection: These procedures shall be used to preclude the use of nonconforming materials and to ensure that only correct and accepted items are used and installed;
- e) Identification and Inspection Status: a system for identifying the progressive inspection status of equipment, materials, components, subassemblies, and assemblies as to their acceptance, rejection, or non-inspection shall be maintained;
- f) Identification and Control of Items: an item identification and traceability control shall be provided;
- g) Handling, Storage, and Delivery: provide for adequate work, surveillance and inspection instructions.
- h) The Plan shall ensure that conditions adverse to quality such as failures, malfunctions, deficiencies, deviations, and defects in materials and equipment shall be promptly identified and corrected.
- i) The Plan shall provide for establishing, and maintaining an effective and positive system for controlling non-conforming material including procedures for the identification, segregation, and disposal of all non-conforming material. Dispositions for the use or repair of nonconforming materials shall require the Engineers consent.

### ***Plan Implementation and Verification***

The Plan shall clearly define the QA Organisation. Management responsibility for the QA shall be set forth on the Contractor's policy and organisation chart. The Plan shall define the requirements for QA personnel, their skills and training. Records of personnel certifications shall be maintained and monitored by the QA personnel. These records shall be made available to the Engineer for review, upon request.

The QA operations shall be subject to the Engineers, Employer or Employer's authorised representative's verification at any time, including: surveillance of the operations to determine that practices, methods and procedures of the plan are being properly applied; inspection to measure quality of items to be offered for acceptance; and audits to ensure compliance with the Contract documents.

The contractor's Quality Audit Schedule shall be submitted to the Engineer for consent every three months or more frequently as required.

The results of Quality Audits shall be summarized in the Contractor's monthly reports.

The Contractor shall provide all necessary access, assistance and facilities to enable the Engineer to carry out on-site and off-site surveillance of Quality Assurance Audits to verify that the quality system which has the consent of the Engineer is being implemented fully and properly.

## **8.2 Form 1: Letter of Proposal Submission**

[Location, Date]

To

**GM (Technical)**

Noida Metro Rail Corporation (NMRC) Limited

Block-III, 3rd Floor, Ganga Shopping Complex, Sector-29,  
Noida -201301

District Gautam Budh Nagar, Uttar Pradesh

**Subject: Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

Dear Sir,

We, the undersigned, offer to **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years** in accordance with your RFP Document dated [ Insert Date] and our Proposal. We are hereby submitting our Technical and Financial Proposal, in a sealed envelope. We confirm that we have read the RFP Document in totality and abide by the terms and conditions stated in the document.

We acknowledge that we have

- Studied and analyzed and satisfied ourselves about all the requirement of the tender including but not limited to market and market conditions
- Carefully assessed the commerciality of Project and that we will be fully responsible for all its assessment in this regard.
- Seen / visited / assessed the potential locations and fully understand and comprehend the technical, financial, commercial and investment requirements.

We have filled the complete information correctly in **Form 15**.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification. Our Proposal is binding upon us.

We understand you are not bound to accept any Bid you receive.

\_\_\_\_\_  
Yours Sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name and address of Firm

### 8.3 Form 2: Firm Details

1.	<p><b>Title and name of the Project:</b></p> <p><b><i>Rate Contract for Miscellaneous Electrical &amp; Mechanical (E&amp;M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.</i></b></p>
2.	<p>State the structure of the Bidder's organization (Bidders to complete/delete as appropriate)</p> <p>Sole Bidder</p>
3.	<p>For Bidders who are individual companies or firms, state the following:</p> <p>Name of Company or firm: .....</p> <p>Legal status: (e.g. incorporated private company, proprietorship, etc.)</p> <p>.....</p> <p>Registered address: .....</p> <p>Year of incorporation.....</p> <p>Principal place of business: .....</p> <p>Contact person: .....</p> <p>Contact person's title: .....</p> <p>Address, telephone, facsimile number and e-mail ID of contact person:</p> <p>.....</p> <p>.....</p> <p>.....</p>
4.	<p>Employees Provident Fund No. (attach documentary proof) -</p>
5.	<p>Employees State Insurance Acts in India No. (attach documentary proof) -</p>
6.	<p>GST Registration No. (attach documentary proof) -</p>
7.	<p>PAN (attach documentary proof) -</p>

### 8.4 Form 3: Eligibility Statement

It is Compulsory for the bidder to fill this statement and the bidder must upload those document that support this statement

Tender Reference No : \_\_\_\_\_

Name of Work : \_\_\_\_\_

Name of Bidder: \_\_\_\_\_

<b>S.No.</b>	<b><u>ELIGIBILITY CRITERIA</u></b>	<b>(To be filled by the Bidder)</b>
1	Sole proprietorship, registered partnership firm, public limited company or private limited company can submit the Bid. The firms and the companies should be registered in India.	Yes/ No
2	<p>The Bidder should have a minimum experience of having satisfactorily completed similar works during last 7 (seven) years period ending last day of month previous to the one in which the bids are invited should be either of the following</p> <p><b>I. One similar completed work costing not less than the amount equal to Rs. 2.61 Crore (Rupees Two Crore Sixty One Lakh only) or</b></p> <p><b>II. Two similar completed works each costing not less than the amount equal to Rs. 1.63 Crore (Rupees One Crore Sixty Three Lakh only) or</b></p> <p><b>III. Three similar completed works each costing not less than the amount equal to Rs. 1.30 crore (Rupees One Crore Thirty Lakh only)</b></p>	7 Years

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

S.No.	ELIGIBILITY CRITERIA	(To be filled by the bidder)												
3	<p>The Bidder should have in the last 5 (Five) Financial Years preceding the Bid Due Date -</p> <p><b>i. The Bidder should have minimum average annual turnover of Rs. 86.88 lakh (Rupees Eighty Six Lakh Eighty Eight Thousand only)</b></p>	<table border="1"> <tr> <td data-bbox="707 394 874 448">FY 2018-19</td> <td data-bbox="874 394 1026 448"></td> </tr> <tr> <td data-bbox="707 448 874 501">FY 2019-20</td> <td data-bbox="874 448 1026 501"></td> </tr> <tr> <td data-bbox="707 501 874 555">FY 2020-21</td> <td data-bbox="874 501 1026 555"></td> </tr> <tr> <td data-bbox="707 555 874 609">FY 2021-22</td> <td data-bbox="874 555 1026 609"></td> </tr> <tr> <td data-bbox="707 609 874 663">FY 2022-23</td> <td data-bbox="874 609 1026 663"></td> </tr> <tr> <td data-bbox="707 663 874 797">Average Annual Turnover</td> <td data-bbox="874 663 1026 797"></td> </tr> </table>	FY 2018-19		FY 2019-20		FY 2020-21		FY 2021-22		FY 2022-23		Average Annual Turnover	
FY 2018-19														
FY 2019-20														
FY 2020-21														
FY 2021-22														
FY 2022-23														
Average Annual Turnover														
4.	<p>The bidder should have Working Capital / Net cash flow (Current Assets minus current Liabilities) of more than or equal to <b>Rs. 15.51 lakhs in the last audited F.Y.</b></p>													
5.	<p>The Profit of bidder before tax should be positive in 2 years out of last 5 years.</p>	<table border="1"> <tr> <td data-bbox="707 1037 874 1090">FY 2018-19</td> <td data-bbox="874 1037 1026 1090"></td> </tr> <tr> <td data-bbox="707 1090 874 1144">FY 2019-20</td> <td data-bbox="874 1090 1026 1144"></td> </tr> <tr> <td data-bbox="707 1144 874 1198">FY 2020-21</td> <td data-bbox="874 1144 1026 1198"></td> </tr> <tr> <td data-bbox="707 1198 874 1252">FY 2021-22</td> <td data-bbox="874 1198 1026 1252"></td> </tr> <tr> <td data-bbox="707 1252 874 1305">FY 2022-23</td> <td data-bbox="874 1252 1026 1305"></td> </tr> </table>	FY 2018-19		FY 2019-20		FY 2020-21		FY 2021-22		FY 2022-23			
FY 2018-19														
FY 2019-20														
FY 2020-21														
FY 2021-22														
FY 2022-23														
6.	<p><b>Net worth of the bidder should be more than or equal to Rs 21.72 lakhs in the last audited F.Y.</b></p>													
7.	<p>The Bidder should not have been blacklisted/ banned/ declared ineligible for corrupt and fraudulent practices by the Government of India/ any State Government/ Government Agency and Supreme court and contracts have been terminated/ foreclosed by any company / department due to non- fulfilment of Contractual obligation in last 5 (five) financial years.</p>													



## 8.5 Form 4: Work Experience

The following format shall be used for statement of experience of Bidder:

SN	Similar Contract description	Contract Identification Number	Award date & Completion date	Employer's Name, address, telephone number, e- mail etc	Completion cost	Value of similar work in completed work
1						
2						
3						
4						
Add required number of rows if required						

*Authorized*

*signatory Name:*

**Date:**

**Name of the Bidder with seal**

**NOTE:**

1. Only the value of contract as executed by the applicant/member in his own name should be indicated. Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence
2. The tenderer shall upload details of work executed by them in the prescribed format for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from the client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be uploaded. In case **work is executed for private client documentary proof** such as **copy of work order, Bill of quantities, Bill wise details of payment received certified by CA, TDS certificates for all the payments received, copy of final/ last bill paid by the client should be uploaded.** The offers submitted without this documentary proof will not be evaluated.
3. Value of successfully completed portion of any ongoing work up to the last day of the previous month of tender submission will also be considered for qualification of work experience criteria.
4. For completed works, value of work done shall be updated to the last day of the previous month of tender submission price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. The exchange rate of foreign currency shall be applicable 28 days before the submission date of tender.
5. If the above work(s) comprise(s) other works also, then client's certificate clearly indicating the amount of work done in respect of the "similar work" shall be furnished by the tenderer in support of work experience along-with their tender submissions.

## 8.6 Form 5: Financial Capability Details

Bidder should submit their financial details as per the following:

This is to certify that the Average Annual Turnover, Profit Before Tax, Net Worth & Working Capital of M/s.....

.....  
having registered office at .....

....., as applicable, is as below:

### 1. Average Annual Turnover

S.No.	Financial year	Name of the Bidder	Turnover (INR)
1.	2022-23		
2.	2021-22		
3.	2020-21		
4.	2019-20		
5.	2018-19		
	Average Annual Turnover		

### 2. Profit before tax

S.No.	Financial year	Name of the Bidder	Profit before tax (INR)
1.	2022-23		
2.	2021-22		
3.	2020-21		
4.	2019-20		
5.	2018-19		

### 3. Net Worth

S.No.	Financial year	Name of the Bidder	Net Worth (INR)
1.	2022-23		

### 4. Working Capital / Net cash flow

S.No.	Financial year	Name of the Bidder	Working Capital / Net cash flow (INR)
1.	2022-23		

### **Certificate of the Chartered Accountants/Statutory Auditors**

Based on Audited Accounts and other relevant documents of \_\_\_\_\_ (Name of Bidder), we M/s

\_\_\_\_\_, Chartered Accountants/ Statutory Auditors, certify that the above information pertaining to FY 2018-19, FY 2019-20, FY 2020-21, FY 2021-22 and FY 2022-23 is correct.

Signature and Seal of

Chartered Accountants/Statutory Auditors  
(with membership no.)

**UDIN No. -**

### **Authorised Signatory**

**(Name & Designation of Authorised Signatory)**

*In case the Financial Statements for the latest financial year are not audited and therefore the Bidder cannot make it available, the Bidder shall give an undertaking to this effect and the statutory auditor/charted accountant shall certify the same. In such a case, the Bidder shall provide the Audited Financial Statements for 4 (four) years preceding the year for which the Audited Financial Statement is not being provided. Also, pertaining to latest financial year, the bidder shall submit an affidavit certifying that "The Annual Accounts have not been audited so far. We are submitting the CA certified provisional accounts, which shall be substantiated by the Audited Accounts, when prepared."*

### **NOTE:**

1. All such documents reflect the financial data of the bidder and not that of sister or parent company.
2. The financial data in above prescribed format shall be certified by CA/ Company Auditor under his signature and stamp in original along with membership no. along with UDIN.
3. The Bidder shall provide the audited annual financial statements as required.

## **8.7 Form 6: Memorandum**

**Name of Work: Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

I/We agree to keep the quoted rate open for acceptance for 180 days from the due date of submission thereof and not make any modification in its terms and conditions.

I/We hereby declare that I/We shall treat the quotation documents, drawings and other records connected with the works as secret/ confidential documents and shall not communicate information derived there from to any person other than the information in any manner prejudicial to the safety of NMRC.

---

Signature of the bidder with seal

Dated:

Witness:

Address:

Occupation

## **8.8 Form 7: Undertaking**

I confirm that We (Tenderer), \_\_\_\_\_

- a. Have not been banned /declared ineligible for corrupt and fraudulent practices by any government/government-undertaking/ semi-government/ govt. controlled institutions, any court of law having jurisdiction in India for the past 5 (five) years.
- b. Do not have any pending litigation & non-performing contracts during last 5 (five) years. Further, has not been barred by any government/government-undertaking/ semi-government/ govt. controlled institutions
- c. Have not abandoned any work in last 5 (five) years.
- d. Have not delayed in similar work completion during orders executed in last 5 (five) years.
- e. Do not ever been terminated due to poor performance.
- f. Have not suffered Bankruptcy/ insolvency in last 5 (five) years.
- g. Have not been blacklisted/ debarred by any organization.
- h. Have not been be involved in any illegal activity and/or has not been charge sheeted for any criminal act during the last 5 (five) years.
- i. Have not submitted any misleading information in the Bid.
- j. Are financially sound to perform the work.

***Authorized signatory Name:***

**Date:**

**Name of the Bidder with seal**

## **8.9 Form 8: Power of Attorney**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)**

**Power of Attorney to be provided by the Bidding Company in favour of its representative as evidence of authorized signatory's authority.**

Know all men by these presents, We .....(name and address of the registered office of the Bidding Company) do hereby constitute, appoint and authorize Mr./Ms.....(name and residential address) who is presently employed with us and holding the position of\_\_\_, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things necessary or incidental to submission of our Bid for **Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years** in response to the RFP Document dated\_\_\_\_\_issued by Noida Metro Rail Corporation ("NMRC" or "the Corporation"), including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which the Corporation may require us to submit. The aforesaid Attorney is further authorized for making representations to the NMRC or any other authority, and providing information / responses to the NMRC, representing us in all matters before the NMRC, and generally dealing with the Corporation in all matters in connection with our Bid till the completion of the bidding process as per the terms of the RFP Document and further till the Contract is entered into with the NMRC and thereafter till the expiry of the Contract.

We hereby agree to ratify all acts, deeds and things done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall be binding on us and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP Document.

Signed by the within named

.....[Insert the name of the executant company]

through the hand of

Mr. ....

duly authorized by the Board to issue such Power of Attorney

Dated this ..... day of .....

Accepted

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

.....

Signature of Attorney

(Name, designation and address of the Attorney)

Attested

.....

(Signature of the executant)

(Name, designation and address of the executant)

.....

Signature and stamp of Notary of the place of execution

Common seal of ..... has been affixed in my/our presence pursuant to Board of Director's Resolution dated.....

**WITNESS**

1. ....  
(Signature)

Name .....

Designation.....

2. ....  
(Signature)

Name .....

Designation.....

**Notes:**

- (1) The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and the same should be under common seal of the executants affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
- (2) In the event, power of attorney has been executed outside India, the same needs to be duly notarized by a notary public of the jurisdiction where it is executed.
- (3) Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a board resolution / power of attorney, in favour of the person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

## **8.10 Form 9: Saleable Form for Tender Document**

### **DETAILS OF BID DOCUMENT / TENDER PROCESSING FEE**

Job No. ....

The required fee of tender form has been deposited in \_\_\_\_\_ Bank A/c No. \_\_\_\_\_ RTGS/NEFT and the scanned copy of UTR receipt with Transaction Id is being enclosed with tender documents.

### **DETAILS OF EARNEST MONEY ATTACHED**

The required amount of Earnest money has been deposited in \_\_\_\_\_ Bank A/c No. \_\_\_\_\_ RTGS/NEFT and the scanned copy of UTR receipt with transaction Id is being enclosed with tender documents. If the copy of UTR receipt is not submitted with the Technical Package of tender documents, bid shall be rejected.

BIDDER





## **8.12 Form 11: Undertaking pertaining to Personnel**

- We confirm to deploy personnel required to achieve progress of work as per approved construction of work program and conditions mentioned in the tender document.
- The contractor shall deploy resources as per the mentioned minimum requirement in the tender and also confirm to deploy manpower over and above the minimum numbers indicated above, if the work requires so.
- These minimum resources are as per the requirements of the various activities at different stages of works. All resources need not to be mobilised simultaneously, resources as per the requirement of various stages of works shall be mobilised in accordance with the instructions of the Engineer. The decision of the Engineer shall be final and bonding.
- The performance of project personal deployed will be evaluated periodically by Employer during the contract period. In case the performance of any of the personnel is not satisfactory, the contractor shall replace them with good personnel immediately as per the directions of the Engineer.

*Date:*

*Signature with Stamp/Seal*

### 8.13 Form 12: Proposed Personnel

Affix self-attested photograph

NAME : .....

EMPLOYEE ID : .....

FATHER'S NAME : .....

DATE OF BIRTH : .....

PERMANENT ADDRESS : .....

RESIDENTIAL ADDRESS : .....

MARITAL STATUS : .....

EDUCATIONAL QUALIFICATION : .....

TECHNICAL QUALIFICATION : .....

EXPERIENCE : .....

LANGUAGE KNOWN : .....

NATIONALITY : .....

CATEGORY : .....

DATE: .....

PLACE: .....

**SIGNATURE**

(To be filled by contractor)

*Attested by authorised person:*

**Note:** A staffing schedule containing the names, qualifications, professional experience and corporate affiliation of all proposed management personnel (above the level of shift supervisor) and specialists for this work. The submission shall include a provisional management structure and organisation chart showing areas of responsibility, relative seniorities and lines of reporting. The proposed staffing plan shall be in conformity with the "Clause 4.3 – Personnel" of tender document.

### 8.14 Form 13: Obligation/ Compliance to be ensured by Contractor

S.No.	Items	Compliance of Contractor (To be filled by contractor)	
		Yes	No
1	License for employing contract labour		
2	Compliance of minimum wages Act by payment of wage on 7th of every month through Bank or in the presence of nominated representative of employer (NMRC Supervisor/manager)		
3 (a)	Compliance of provision of ESI & EPF Act		
3 (b)	Ensure treatment in ESI hospital in case of accident/injuries suffered in performance of work and compensation under ESI Act.		
4	Send Accident report to Regional Labour Commissioner (RLC) & ESI authorities.		
5	Observance of working hours, weekly rest and overtime payments as per minimum wages Act-1948.		

Note: - A Non- filling or "No" by contractor will lead to non-eligibility for contractor in further tendering process.

S.N	Description	Reference Clause	Requirement
i	Latest "date for commencement" of the Works	Clause 8.1 of the GCC	Date given in NOA or Employer's Notice to Proceed
ii	Liquidated Damages	Clause 8.5 of the GCC	(i) 0.015% of contract price per day of delay in completion of whole work. (ii) Total maximum limit of LD including sums payable by the employer to designated contractors is 15% as mentioned in GCC.
	Insurance for workers/	Clause 15.4	All of the contractor's employees shall have to be covered under ESI and ECA as per Special

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

iii	employees	of the GCC	conditions of contract.
iv	Insurance cover for Contractor's All Risk and other requirements as specified in the GCC	Clause 15 of the GCC	<b>100%</b> of the Total Contract Price.
v	Amount of Third Party Insurance	Clause 15.3 of the GCC	INR 0.75 Million for any one incident, with no. of incidents unlimited.
vi	Period in which all insurances have to be effected	Clause 15.5 of the GCC	Within 1 week from the "date of commencement"

Signature of authorized signatory of Tenderer

**8.15 Form 14: Performa for Clarifications / Amendments on the RFP**

<b>Sl. No.</b>	<b>Document</b>	<b>Clause No. and Existing Provision</b>	<b>Clarification required</b>	<b>Suggested Text for the Amendment</b>	<b>Rationale for the Clarification or Amendment</b>

*Authorized*

*signatory Name:*

**Date:**

**Name of the Bidder with seal**

*RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.*

## **8.16 Form 15: Bid Offer/ BOQ**

To

ED/ NMRC

Noida Metro Rail Corporation (NMRC) Limited  
Block-III, 3<sup>rd</sup> Floor, Ganga Shopping Complex  
Noida -201301,

District Gautam Budh Nagar, Uttar Pradesh

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***Sub: Rate Contract for E&M works in NMRC at Depot, Staff Quarters and Stations of N- GN corridor for 3 years.***

Dear Sir,

I/we have read and examined the RFP document, general terms and conditions.

*I/we hereby quote for the Total Price for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.*

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>Tender Inviting Authority- Noida Metro Rail Corporation (NMRC) Ltd.</b>					
<b>Rate Contract for Miscellaneous Electrical &amp; Mechanical (E&amp;M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd.</b>					
<b>Tenure: 3 Years</b>					
<b>Contract No : NMRC /E&amp;M/Rate Contract/***/ 2024</b>					
<b>SCHEDULE A : Works</b>					
<b>S.No</b>	<b>System/Equipment</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit rate(inclusive of GST)</b>	<b>Amount(Inclusive of GST)</b>
<b>1</b>	<b>Firefighting and other domestic water pumps installed at 21 stations and RS Depot ( 2*50 HP pumps &amp; 1*7.5 HP jockey pump are present at each of the 16 stations; At 5 stations with PD area 3*75 HP pumps &amp; 2*7.5 HP jockey pumps are installed; At RS Depot 2*150 HP pumps, 1*153BHP, 2*10HP jockey pumps are available.)</b>				
<b>Note : Dismantling, Transportation and reinstallation are included with each of the pumps repair work</b>					
<b>1.1</b>	<b>Fire Fighting Pumps</b>				
<b>a</b>	Repairing and re-winding of Fire Pump(Hydrant), 50 HP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	5	28000	140000
<b>b</b>	Repairing and re-winding of Fire Pump(Hydrant), 75 HP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	1	49000	49000
<b>c</b>	Repairing and re-winding of Fire Pump(Hydrant), 150 HP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	1	91000	91000



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<b>d</b>	Repairing and re-winding of Fire Pump(Jockey), 7.5 HP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	3	4900	14700
<b>e</b>	Repairing and re-winding of Fire Pump(Jockey), 10HP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	1	6300	6300
<b>f</b>	Repairing of Fire Pump(standby), 153 BHP rating. Rate is inclusive of removing damaged winding, refixing after repair and starting the units	No.	1	13300	13300
<b>g</b>	Repairing and providing mechanical seal of Fire Pump(Hydrant), 75, 50 , 150 HP rating. Rate is inclusive of removing damaged seal, refixing after repair and starting the units	No.	10	17500	175000
<b>1.2</b>	<b>Other Pumps of domestic use</b>			0	0
<b>1.2.1</b>	<b>Flushing Pumps (Total 42 pumps are Installed at 21 stations on Aqua Line)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Vertical Centrifugal Pumps of Kirloskar Brothers Ltd., make of Model KCIL 15-4 of capacity 15 M3/Hr at the head of 47 Meters complete with 5.5 HP / 4.0 KW 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as required.	No.	1	6300	6300

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<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor, rates will be consider after all scrap less)	No.	1	4900	4900
<b>c</b>	Overhauling of Pump with replacement of all <b>standard spare</b> like as ball bearings complete, SS Impeller, Diffuser, Shaft, TC bush, Mechanical Seal etc as required	No.	1	23800	23800
<b>1.2.2</b>	<b>Domestic &amp; Filter Feed Pumps (Total 84 pumps are Installed at 21 stations on Aqua Line)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Vertical Centrifugal Pumps of Kirloskar Brothers Ltd. make of Model KCIL 10-6 of capacity 10 M3/Hr at the head of 48 Meters complete with 3.0 HP / 2.2 KW 3 Phase, 2900 RPM Induction Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as required.	No.	1	6300	6300
<b>b</b>	Rewinding of Motor with copper winding wire along with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor including all scrap material less)	No.	1	4900	4900

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<b>c</b>	Overhauling of Pump with replacement of standard class spare like as ball bearings complete, SS Impeller , Diffuser, Shaft TC Bush Mechanical Seal etc as required.	No.	1	23800	23800
<b>1.2.3</b>	<b>De-watering sump Pumps (Total 22 pumps are Installed at 11 stations on Aqua Line)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Vertical Centrifugal Dewatering non-clog Sump Pumps of Kirloskar Brothers Ltd. make of Model 1500 CW of capacity appx. 16 M3/Hr at the head of 12 Meters complete with 2.0 HP / 1.5 KW 3 Phase, Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without Panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as required.	No.	2	17500	35000
<b>b</b>	Rewinding of Motor with copper winding wire along with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after less old scrap)	No.	2	3080	6160
<b>c</b>	Overhauling of Pump with replacement of standard spare like ball bearings complete Mechanical Seal, O ring kit + Oil, Shaft, impeller etc as per required.	No.	2	9100	18200

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(ii)	Supply & installation of Vertical Centrifugal Dewatering non-clog Sump Pumps of Kirloskar Brothers Ltd. make of Model 1500 CW of capacity appx. 16 M3/Hr at the head of 12 Meters complete with 2.0 HP / 1.5 KW 3 Phase, Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. complete etc as per required by user.	No.	2	6580	13160
1.2.4	<b>Submersible Pumps in Bore Wells (Total 21 pumps are Installed at 21 stations, 2 pumps are installed at depot and 1 at Residential complex on Aqua Line)</b>			0	0
(i)	Servicing, Repairs & replacement of spare parts in Centrifugal Submersible Pumps of CRI Pumps (P) Ltd. make of Model 4M-13/14 or 4M-8E/17 or S6G-22/5 of capacity 9-16 M3/Hr at the head of 50-90 Meters complete with UP TO 5.0 HP / 3.7 KW 3 Phase, 2900 rpm, Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as required for following items of work without Panel:			0	0
a	Deep in and deep out with safety of pump from Bore Well after disconnection from suction and discharge plumbing work, taking out of column pipes from the bore, stacking / storing safe, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation in the Bore Well with existing column pipes, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as required.	No.	3	17500	52500
b	Rewinding of submersible Motor with F class insulation & winding wire after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor)	No.	3	5180	15540

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<b>c</b>	Overhauling of Pump with replacement of thrust bearings complete motor & pump shaft, GM bush, impeller, thures Plate etc as required.	No.	3	4900	14700
<b>(ii)</b>	Supply & installation of Centrifugal Submersible Pumps of CRI Pumps (P) Ltd. make of Model 4M-13/14 of capacity 9-16 M3/Hr at the head of 50-90 Meters complete with 5.0 HP / 3.7 KW 3 Phase Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as required.	No.	5	6300	31500
<b>1.2.5</b>	<b>Domestic Water Pumps installed at Depot - 2 Nos.</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Horizontal Centrifugal Pumps of Crompton Greaves, make of Model MBN 7.52/2017 of capacity 20 M3/Hr at the head of 35 Meters complete with 5.5 KW / 7.5 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site as per required.	No.	1	17500	17500
<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor,after old scrap less)	No.	1	6440	6440

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<b>c</b>	Overhauling of Pump with replacement of standard class ball bearings, complete Bush Sleeve , impeller ,shaft etc as required.	No.	1	5320	5320
<b>(ii)</b>	Supply & installation of Horizontal Centrifugal Pumps of Crompton Greaves, make of Model MBN 7.52/2017 of capacity 20 M3/Hr at the head of 35 Meters complete with 5.5 KW / 7.5 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required	No.	1	51030	51030
<b>1.2.6</b>	<b>Treated Water Pumps Installed at Depot - 2 Nos.</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of standard class spare parts in Horizontal Centrifugal Pumps of Crompton Greaves, make of Model MBNH10.2/2017 of capacity 33 M3/Hr at the head of 45 Meters complete with 7.5 KW / 10 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as required.	No.	2	17500	35000
<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor)	No.	2	9800	19600

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<b>c</b>	Overhauling of Pump with replacement of standard class ball bearings, complete bush,sleeve, shaft, impeller etc as required.	No.	2	6720	13440
<b>(ii)</b>	Supply & installation of Horizontal Centrifugal Pumps of Crompton Greaves, make of Model MBNH10.2/2017 of capacity 33 M3/Hr at the head of 45 Meters complete with 7.5 KW / 10 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required	No.	1	55650	55650
<b>1.2.7</b>	<b>Submersible Pumps in Bore Wells (1 pump is installed at depot on Aqua Line)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Centrifugal Submersible Pumps of KSB Pumps make of Model BPH33/47HB235 of capacity 90 M3/Hr at the head of 54 Meters complete with 10.0 HP / 7.7 KW 3 Phase, 2900 rpm, Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from Bore Well after disconnection from suction and discharge plumbing work, taking out of column pipes from the bore, stacking / storing safe, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation in the Bore Well with existing column pipes, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as required.	No.	1	17500	17500

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<b>b</b>	Rewinding of submersible Motor with submersible copper winding wire along with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after old scrap less)	No.	1	11200	11200
<b>c</b>	Overhauling of Pump with replacement of standard class thrust bearings, complete motor & Pump shaft sleeve, thurs plate etc as required.	No.	1	7700	7700
<b>(ii)</b>	Supply & installation of Centrifugal Submersible Pumps of KSB make of Model BPH33/47HB253 of capacity 90 M3/Hr at the head of 54 Meters with 10.0 HP / 7.7 KW 3 Phase Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as per required.	No.	2	55706	111412
<b>1.2.8</b>	<b>De-watering sump Pumps at Depot (Total 6 Nos. pumps 1 for Utility Gallery, 2 DCO store and 3 in Workshop are Installed)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Vertical Centrifugal Dewatering non-clog Sump Pumps of Crompton Greaves make of Model CDPJ550 of capacity 2 to 9 M3/Hr at the head of 2 to 9 Meters complete with 01 HP / 0.75KW 1 Phase, Submersible Induction Motor suitable for operation on 230 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as	No.	3	2800	8400



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	required.				
<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor)	No.	3	3080	9240
<b>c</b>	Overhauling of Pump with replacement of standard class ball bearings complete mechanical seal, o ring kit + oil shaft impeller etc as required.	No.	3	3920	11760
<b>1.2.9</b>	<b>Water Supply Pumps for Residential Complex at Depot (Horizontal Submersible)</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Horizontal Centrifugal Submersible Pumps of Kirloskar, make of Model KOS1050+ of capacity 40 Metre cube/hr at the head of 36 Meters complete with 7.5 KW / 10 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as	No.	1	17500	17500

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	required.				
<b>b</b>	Rewinding of Motor with copper winding wire with F Class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor, after all old scrap less)	No.	1	9800	9800
<b>c</b>	Overhauling of Pump with replacement of standard class of ball bearings ,complete shaft sleeve, impeller etc as required.	No.	1	8400	8400
<b>(ii)</b>	Supply of Horizontal Centrifugal Submersible Pumps of Kirloskar, make of Model KOS1050+ of capacity 40metre cube/hr at the head of 36 Meters complete with 7.5 KW / 10 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:	No.	1	55706	55706
<b>(iii)</b>	Installation of Horizontal Centrifugal Submersible Pumps of Kirloskar, make of Model KOS1050+ of capacity 40metre cube/hr at the head of 36 Meters complete with 7.5 KW / 10 HP 3 Phase Induction, 2900 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:	No.	2	55706	111412
<b>1.2.10</b>	<b>(Terrace Fire Pumps at Residential Complex - 10 Nos.)</b>			0	0

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(i)	Servicing, Repairs & replacement of spare parts in Horizontal Centrifugal Pumps of Kirloskar, make of Model KI160L of capacity 54 M3/Hr at the head of 35 Meters complete with 15 KW / 20 HP 3 Phase Induction, 1450 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for following items of work without panel:			0	0
a	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as required.	No.	2	17500	35000
b	Rewinding of Motor with copper winding wire with F Class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after old scrap less)	No.	2	13300	26600
c	Overhauling of Pump with replacement of standard class of ball bearings, complete shaft ss, sleeve, mechanical seal etc as required.	No.	2	12600	25200
1.2.11	<b>(Terrace Fire Pumps at Residential Complex - 2 Nos. Tower G &amp; Cummunity Centre)</b>			0	0
(i)	Servicing, Repairs & replacement of spare parts in Horizontal Centrifugal Pumps of Kirloskar, make of Model KI160L of capacity 54 M3/Hr at the head of 35 Meters complete with 15 KW / 20 HP 3 Phase Induction, 1450 RPM Motor suitable for operation on 415 Volt 50 Hz. AC complete etc as required for				0

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	following items of work without panel:				
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as required.	No.	1	17500	17500
<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after old scrap less)	No.	1	13300	13300
<b>c</b>	Overhauling of Pump with replacement of standard class ball bearings, complete shaft, ss sleeve, mechanical seal etc as required.	No.	1	12600	12600
<b>1.2.12</b>	<b>Booster Pump 1.0HP with 24 Ltr Tank</b>			0	0
<b>a</b>	Dismantling the pump from foundation after disconnection from WPP, suction and discharge plumbing work, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation on foundation, re-connection of suction & discharge plumbing work, Electrical Connections with WPP, testing & commissioning at site complete etc as required.	No	1	2800	2800

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<b>b</b>	Rewinding of Motor with copper winding wire with F class insulation after removing burnt copper wires complete etc. as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after old scrap less)	No	1	2100	2100
<b>c</b>	Overhauling of Pump with replacement of standard class ball bearings, complete shaft, ss sleeve, mechanical, Impeller etc. as required.	No	1	2800	2800
<b>d</b>	Supply of Booster pump of 1.0 HP with 24 Ltr	No	1	9100	9100
<b>1.2.13</b>	<b>Staff quarters borewell</b>			0	0
<b>(i)</b>	Servicing, Repairs & replacement of spare parts in Centrifugal Submersible Pumps of KSB Pumps make of Model BPH33/47HB235 of capacity 360lpm at the head of 54 Meters complete with 5 KW / 7.5 HP, 3 Phase, 2900 rpm, Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as required for following items of work without panel:			0	0
<b>a</b>	Dismantling the pump from Bore Well after disconnection from suction and discharge plumbing work, taking out of column pipes from the bore, stacking / storing safe, shifting to workshop, re-assembling after servicing / repair in workshop and re-installation in the Bore Well with existing column pipes, re-connection of suction & discharge plumbing work, testing & commissioning at site complete etc as required.	No.	1	7000	7000

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<b>b</b>	Rewinding of submersible Motor with submersible copper winding wire along with F class insulation after removing burnt copper wires complete etc as required (Rates considering the salvage value of old dismantled copper wire which shall be retained by the contractor after old scrap less)	No.	1	9800	9800
<b>c</b>	Overhauling of Pump with replacement of standard class thrust bearings, complete motor & Pump shaft sleeve, thurs plate etc as required.	No.	1	8400	8400
<b>(ii)</b>	Supply & installation of Centrifugal Submersible Pumps of KSB make of Model BPH33/47HB253 of capacity 360 LPM at the head of 54 Meters with 5Kw / 7.5 HP 3 Phase Submersible Induction Motor suitable for operation on 415 Volt 50 Hz. AC installed in the bore well complete etc as per required.	No.	1	52038	52038
<b>2</b>	<b>CABLES(Stations and Depot)</b>			0	0
<b>2.1</b>	Laying of one number PVC insulated and PVC sheathed / XLPE Aluminium power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.			0	0
<b>a</b>	Above 35 sq. mm and upto 95 sq. mm	meter	250	253.4	63350
<b>b</b>	Above 95 sq. mm and upto 185 sq. mm	meter	500	308	154000
<b>2.2</b>	Laying of one number PVC insulated and PVC sheathed / XLPE Aluminium power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required			0	0

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<b>a</b>	Upto 35 sq. mm	meter	300	56	16800
<b>2.3</b>	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE Aluminium power cable of 1.1 KV grade of following size on wall surface as required			0	0
<b>a</b>	Upto 35 sq. mm	meter	5000	63	315000
<b>b</b>	Above 35 sq. mm and upto 95 sq. mm	meter	200	168	33600
<b>3</b>	<b>Protective Earthing</b>			0	0
<b>3.1</b>	Providing & fixing of GI strips for interconnecting to earthing stations, panels, DBs etc. of the following sizes in built-up trenches/surface/wall/ground complete with holes & fixing/jointing/terminating accessories etc.( Quantity shall be paid as per the actual measurement as executed)			0	0
<b>a)</b>	70 mm x 10 mm GI strip	M	50	448	22400
<b>b)</b>	50 mm x 6 mm GI strip	M	100	420	42000
<b>c)</b>	25 mm X 6 mm GI strip	M	100	350	35000
<b>d)</b>	25 mmX3mm GI strips	M	50	288.4	14420

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e)	8 /6 SWG wire	M	500	35	17500
3.2	Supply, installation and testing of Polyplastic earth electrode inspection housing with removable covers capable to handle up to 8 tons load. This specification will meet the requirements of mentioned documents & also working as a reference standard: IEC 62561-5 (requirement of earth electrode inspection housings) and NBC : 2016 ( National Building code).The laboratory test must be in accordance with IES 62561-5:2017	Job	100	9100	910000
3.3	Supply of earth enhancement compound (carbon based with min 95% of fixed carbon content premixed with corrosion resistant cement etc to have set properties) for maintenance free earthing in the earth pits to improve conductivity of earth electrode and ground contact area tested and conforming to the requirements of IEC 62561-7 having following characteristics along with the user manual:	kg	5000	70	350000
a)	RoHS tested Earth Enhancement Compound tested by NABL accredited lab in compliance to IEC 62561-7 with a resistivity some with a resistivity of 0.12 ohm-m.			0	
b)	An earth enhancing compound shall be tested for Leaching Test, Corrosion Test, Resistivity Test & Sulphur Test.			0	
c)	Shall not pollute the soil or local water table and meets environmental friendly requirements for landfill, shall not be explosive & shall not cause burns, irritation to eye, skin etc. In this regard "Safety Data Sheets" shall be submitted by the manufacturers.			0	



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<b>d)</b>	Marking: The Earth enhancement material shall be supplied in sealed, moisture proof bags. These bags shall be marked with Manufacturer's name or trade name, quantity etc.			0	
<b>3.4</b>	<b>PLATE EARTHING- GI Plate Electrode</b>			0	0
	Providing and making plate earthing including the cost of 600 mm x 600 mm x 6.3 mm GI plate electrode, 50 mm dia GI watering pipe, GI funnel with all earth work, Disconnecting links, complete etc as required as per <b>IS 3043:1987</b> for earthing.	Job	20	16800	336000
<b>3.5</b>	<b>Pipe earthing - GI Pipe electrode</b>			0	0
	Providing and making Earth terminations with 50 mm dia GI perforated pipe complete with 15mm GI watering pipe with funnel with wire mesh etc. complete as per specification and drawing as required for LA system	Job	50	5320	266000
<b>4</b>	<b>30 m High Mast System</b>			0	0
<b>4.1</b>	Rectification of 30m High mast including dismantling and reinstallation	JOB	5	3500	17500
<b>4.2</b>	Rectification of lights at height at 25 feet & above	No. (per light)	150	11900	1785000
<b>5</b>	<b>LIGHTNING PROTECTION</b>			0	0
<b>5.1</b>	Supplying and installation of the stainless steel SS-304 air terminations, base plate & clamping as required	No.	150	425.6	63840

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<b>5.2</b>	Supply, laying and fixing of the GI horizontal & vertical conductor of following sizes on surface/wall/parapet/shaft complete with joints, bimetallic connectors, testing links & other fixing accessories and clamping/ connection with earth terminations as per specifications & drawing as required.			0	0
<b>a</b>	25 x 3 mm thick GI Strip	M	100	350	35000
<b>b</b>	32 x 6 mm thick GI Strip	M	100	574	57400
<b>c</b>	25 x 6 mm thick GI Strip	M	100	420	42000
<b>6</b>	Supply of 20KVA, 415 V, 1:1 Delta-star Isolation transformer with necessary accessories complete etc as required.	No.	1	63000	63000
<b>7</b>	Rewinding of 20 KVA, 15 KVA, 415 V, 1:1 Delta-star Isolation transformer.	No.	2	28000	56000
<b>8</b>	Providing services of following qualified & eligible technical workmen for day to day Electrical work/Maintenance work as per requirement of NMRC.			0	0
<b>8.1</b>	Electrician 4 nos.	month	144	31500	4536000
<b>9</b>	Repair of flow switches used for water flow status; MODEL WFD60 system sensor make; minimum flow rate for alarm 4-10 gpm	No.	4	2800	11200
<b>10</b>	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required				0

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<b>10.1</b>	Group C (non residential building)	Point	300	1698.2	509460
<b>10.2</b>	Group A (1-2 & 3 Bedroom houses)	Point	300	1183	354900
<b>11</b>	Supply and fixing Two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Nos	200	420	84000
<b>12.1</b>	Repair/rewinding of 300mm , 450mm dia exhaust fan including dismantling and reinstalltion after repair	Nos	60	560	33600
<b>12.2</b>	Repair of 300mm , 450mm dia exhaust fan including dismantling and reinstalltion after repair	Nos	20	700	14000
<b>12.3</b>	Repair of pedestal fans of 400 mm sweep ( Crompton or Bajaj or Orient make )	Nos	20	728	14560
<b>12.4</b>	Repair/Rewinding of Ceiling fan of 1400 OR 1200 mm sweep	Nos	20	630	12600
<b>13</b>	Supply and fixing of fan hook fabricated from M.S. rod for ceiling fan each complete with cutting of CC & repairing the same if required.	no.	100	700	70000
<b>14</b>	Installation, testing and commissioning of ceiling fan, including wiring , down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required	no.	100	490	49000

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15	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	no.	100	350	35000
16	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.			0	0
a)	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	50	980	49000
17	Supply & fixing 4 way MCB box waterproof	Nos	10	4900	49000
18	<b>Provision of power supply for X- ray machine &amp; DFMD through SS channel</b>				0
18.1	Supply & installation of 50 mm Square hollow SS pipe 1.5 mm thickness including cutting, grinding etc as per scope of work and as per site requirement for provision of supply for x- ray machine & DFMD. Specification of SS channel shall be as per employer requirement of the tender.	metre	450	490	220500
18.2	Supply & installation of 100*100 mm, 5 mm thick SS base plate in roof/wall with four suitable fastner as per site requirement.	No.	120	280	33600
18.3	Fixing/grouting of DFMD with 4/2 nos. suitable size of screw/fastners.	No.	46	7000	322000

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<b>18.4</b>	Rewiring/laying of wire/cables (armoured/unarmoured) from its existing position size upto 10 sq mm 3/4 core cable of X-BIS machine/DFMD supply in arrangement of SS pipe and switch/socket as per BOQ item no 19.1 to 19.4 complete with routing of wire/cable making hole in SS pipe, termination and earthing etc as per site requirement.	metre	450	126	56700
<b>18.5</b>	Supply, laying and fixing of 3 core cable size 2.5 sq mm, PVC/XLPE FRLS unarmoured copper cables on existing trench/cable tray/wall/truses.in SS pipe with heavy duty GI clamps/saddle of suitable size including termination of cables with suitable size of crimping sockets and glands and dismantling of existing cable and its accessories from existing location as per latest IS code & practice.	metre	450	350	157500
<b>18.6 A</b>	Supply & installation of top plug of 6A, make as per Employer requirement	No.	50	28	1400
<b>18.6 B</b>	Supply & installation of top plug of 16A, make as per Employer requirement	No.	50	49	2450
<b>19</b>	Supply, installation, modification of addition ABB make 1600A 4P 50kA ACB with LSIG release & standard accessories consisting of Digital multifunction meter, CTS, control MCB & phase indication lamps	set	1	350000	350000

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20	Supply, installation, testing & commissioning of Front operated front access wall mounted TPN box suitable for outdoor duty, dust and vermin proof( minimum protection 54) along with canopy for avoiding any rain water ingress at RCC level to house 3 no. of TPN of 63A each for VRF ODu units. This includes drilling and fixing of box on wall, fixing of 3 no. of 63A TPN inside the box with suitable spacing between them, making proper holes from top or bottom for incoming and outgoing cables via gromet etc, making all connections with necessary accessories complete etc as required. Approximate dimensions of Box is 80*18*30 cm (length*depth*height)	Job	21	18200	382200
21	Supply, Installation, testing & commissioning of DG battery charger of supply 220V AC input 12V DC , 10A of Max Power supply.	No.	2	7700	15400
22	Providing, Installation, testing & commissioning of MCX-41 coil 220V installed at LT panel	No.	4	28000	112000
23	Supply & fixing of MOO 31 240V contactor for LT Panel timer set 220 V	No.	2	1281	2562
<b>Total of Schedule A</b>					<b>13728750</b>

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<b>Tender Inviting Authority- Noida Metro Rail Corporation (NMRC) Ltd.</b>						
<b>Rate Contract for Miscellaneous Electrical &amp; Mechanical (E&amp;M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd.</b>						
<b>Tenure: 3 Years</b>						
<b>Contract No : NMRC /E&amp;M/***/ 2023</b>						
<b>Schedule B : Critical spares required for maintenance.</b>						
<b>I</b>	<b>MV Switch gear(Stations &amp; Depot)</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit rate(Inclusive of GST)</b>	<b>Amount(Inclusive of GST)</b>	<b>Remarks, if any</b>
<b>1.0</b>	Red/Yellow/Blue/Amber/Green On/Off indicating lamps ( L&T-ESBEE, Schneider make)	each	240	150	36000	
<b>2.0</b>	Relays of following types compatible with existing system				0	<b>Relay</b>
<b>a</b>	Voltage monitoring relay(VMR) with phase sequence , VCT D2, AUX 230V ac, 3P3W (Make Minilec)	No.	20	3850	77000	
<b>b</b>	Voltage monitoring relay(VMR) with phase sequence , VMR D2, AUX 415V ac, 3P3W (Make Minilec)	No.	50	3850	192500	
<b>c</b>	Voltage monitoring relay(VMR) 415V ac, type 1C/O (Make L&T )	No.	100	3850	385000	
<b>d</b>	VMRT; 300-400V TEKNIKA	No.	3	3500	10500	
<b>e</b>	VMRG ; 300-400V TEKNIKA	No.	3	3500	10500	
<b>f</b>	Thermal overload relay OLR WITH BUILT IN SPR PROTECTION of Schneider make following rating :				0	
<b>f.1</b>	90-150 A; TA25DU5M LRD3363	No.	3	12502	37506	

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<b>f.2</b>	12-18 A, LRD21	No.	15	3654	54810	
<b>f.3</b>	4-6 A	No.	15	2561	38415	
<b>g</b>	THERMAL OVER LOAD RELAY,OLR WITH BUILT IN SPR PROTECTION ABB make	No.			0	
<b>g.1</b>	3.5 A-5 A; type TA25DU5M	No.	3	970	2910	
<b>g.2</b>	10 A-14 A; Type TA25DU14M	No.	9	970	8730	
<b>g.3</b>	45 A-63 A; type TA75DU63	No.	7	2945	20615	
<b>h</b>	Thermal overload relay (Legrand) : RTX40,10A	No.	13	2351	30563	
<b>i</b>	OLR THERMAL WITH INBUILT SPPR FEATURE; type MN2; 3-5A; make L&T	No.	3	1650	4950	
<b>j</b>	Phase failure relay S2VMR3, 2 CO MINILEC	No.	50	1830	91500	
<b>k</b>	Phase failure relay VSP D1; 1 CO MINILEC; 240V ac	No.	6	850	5100	
<b>l.1</b>	Auxiliary Relay 4C/O - 230V AC (make SCHNEIDER)	No.	15	891	13365	
<b>l.2</b>	Auxiliary Relay 2C/O - 230V AC (make OMRON)	No.	15	4500	67500	
<b>l.3</b>	AUX RELAY,12V and 24V DC,SALZER	No.	30	3980	119400	
<b>l.4</b>	Auxiliary Relay 4C/O, 14 pin - 230V AC (make salzer)	No.	4	3200	12800	
<b>l.5</b>	Auxiliary Relay 4C/O , 3A, 230V AC (make Omron)	No.	10	2950	29500	
<b>l.6</b>	Auxiliary Relay with base 4C/O , 3A, 230V AC (make Omron)	No.	10	6300	63000	
<b>l.7</b>	Auxiliary Relay with base 2C/O , 3A, 230V AC (make Omron)	No.	15	6300	94500	
<b>m</b>	Add on contact block 2NO+2NC ( Schneider)	No.	30	750	22500	Add On blocks
<b>n</b>	Add on contact block 2NO+2NC ( Legrand) CTX mini	No.	50	850	42500	
<b>o</b>	Add on contact block 2NO+2NC ( ABB)	No.	30	750	22500	
<b>p</b>	Add on contact block LADN11 ( Schneider)	No.	7	850	5950	



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<b>3.0</b>	Following DIGITAL meters compatible with existing system				0	Meters
<b>a</b>	AMMETER, 96 Sq.mm CTR-/5A, WITH INBUILT SELECTOR , DM3110; 0-150A ; <b>SCHNEIDER</b> make	No.	3	2512	7536	
<b>b</b>	AMMETER, 96 Sq.mm CTR-/5A, WITH INBUILT SELECTOR , DM1110; 0-20A ; <b>SCHNEIDER</b> make	No.	6	1123	6738	
<b>c</b>	MFM, MULTIFUNCTION METER CTR- /5A,CL-1 WITH COMM. PORT RS-485 NOMINAL VOLTAGE : 415V AC AUXILIARY VOLTAGE :230V AC HAVING FOLLOWING PARAMETER V,A,F,PF,POWER,KWH WITH TOD etc;Digital; PM5310; <b>SCHNEIDER</b> make of following ratings				0	
<b>c.1</b>	600/5a, CL-1	No.	5	27256	136280	
<b>c.2</b>	250/5A, CL-1	No.	5	22500	112500	
<b>c.3</b>	400/5A, CL-1	No.	5	27256	136280	
<b>c.4</b>	150/5A, CL-1	No.	5	18500	92500	
<b>d</b>	Ammeter; CTR 5A,230V AC AUX SUPPLY; 96*96 SQMM WITH INBUILT SELECTOR SWITCH,CL-1; ducati make	No.	50	1000	50000	
<b>e</b>	A.C operated , 3.5 digit, independent, Digital Voltmeter similar to SMP-45 models of MECO or equivalent	No.	25	524	13100	
<b>f</b>	Multi Function Meter WITH in built SS, 415V AC AUX SUPPLY 96SQMM RS 485 PORT CL 1 for measuring Amps, Voltage, Energy, KWH, KVAH, frequency, Maximum demand & power factor etc with TOD facility conforming to specifications, latest IEC/EMC and EMI standard criterion ; CTR-/5A (DUCATI make)	No.	10	3650	36500	
<b>g</b>	0-30A DC DIGITAL DC AMMETER 96 MMSQ WITH SHUNT 75 mV CONZERV make	No.	3	2560	7680	
<b>h</b>	0-30V DC DIGITAL DC VOLTMETER 96 MMSQ CONZERV make	No.	3	2560	7680	
<b>i</b>	MFM,MFM 3PH,4WIRE,5A WITH RS 485 PORT 92MM*92MM,AUX SUPPLY230V AC; 415V AC CTR-400/5A; type EM6400 DIGITAL CONZERV make	No.	3	500	1500	

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<b>j</b>	AMMETER; 0-10A; Model 96*96; AE make	No.	5	450	2250	
<b>k</b>	VOLTMETER; 0-500VAC; Model 96*96; AE make	No.	5	450	2250	
<b>4.0</b>	Following ratings of MCCBs of ABB make WITH MICROPROCESSOR BASED RELEASE HAVING O/C & S/C PROTECTION+ DOM				0	
<b>a</b>	400A, 35 kA; Type FP(T5N 400 F F_R400)(PR221 DS-LS/I)	No.	1	54129.6	54129.6	MCCB
<b>b</b>	250A,35kA,4-POLE ; Type FP(T4N 250FF_R250)(PR221 DS-LS/I)	No.	1	45586.8	45586.8	
<b>c</b>	200A,35KA; Type FP(T4N 250 F F_R250) (PR221 DS-LS/I)	No.	1	45586.8	45586.8	
<b>d</b>	160A, 35kA; Type FP(T4N 160 F F_R160) (PR221 DS-LS/I)	No.	1	45586.8	45586.8	
<b>e</b>	160A,35kA; Type TP(T2N160 F F_R160)(PR221 DS-1)	No.	1	24099.6	24099.6	
<b>f</b>	160 A; TMAX; T2N160	No.	1	33642	33642	
<b>g</b>	125A,35KA; type FP(T4N 160 F F_R160) (PR221 DS-LS/I)	No.	1	33642	33642	
<b>h</b>	125A,35KA; type TP(T2N 160 F F_R160)(PR221 DS-LS/)	No.	1	24099.6	24099.6	
<b>i</b>	100A,35KA; Type FP(T4N 160 F F_R100) (PR221 DS-LS/I)	No.	1	45586.8	45586.8	
<b>j</b>	100A,35KA; Type TP(T2N 160 F F R100) (PR221 DS-LS/I)	No.	1	20319.6	20319.6	

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<b>k</b>	63A, 35KA; Type TP(T2N 160 F F R63) (PR221 DS-LS/I)	No.	3	20319.6	60958.8	Contactors, Auxiliary contactors & contact blocks
<b>l</b>	40A, TP, 25KA; Type TP(T2N160 F F_R160)(PR221 DS-1)	No.	3	20319.6	60958.8	
<b>5.0</b>	MCCB L&T; 400A FP50KA & 250A FP 36KA; Type DN3-400N	No.	1	45450	45450	
<b>6.0</b>	MCCB L&T; 400A FP50KA & 250A FP 36KA; Type DN2-250D	No.	1	50860	50860	
<b>7.0</b>	ABB make soft starter ; Rating PSE105-600-70; 105A, 55 Kw	No.	1	35680	35680	
<b>8</b>	Following rating of contactors compatible with existing system					
<b>a</b>	Main contactor 2NO+2NC ,230V ac (legrand), CTX22(18A) 230V	No.	50	1250	62500	
<b>b</b>	Contactors ; MNX9+MNX-A2; 9A,240VAC, L&T	No.	2	955	1910	
<b>9</b>	Following rating of contactors of <b>ABB</b> make compatible with existing system					
<b>9.01</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-1 DUTY , FP(AF265-40-00),ABB, <b>400A</b>	No.	4	59234	236936	
<b>9.02</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-1 DUTY , FP(AF190-40-00); 230V AC, <b>250A</b>	No.	9	41664	374976	
<b>9.03</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-1 DUTY , FP(AF116-40-00), ABB, <b>160A</b>	No.	3	27181	81543	

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<b>9.04</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-3 DUTY , TP(AX80-30-11), ABB, <b>75A</b>	No.	25	12257	306425
<b>9.05</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 1 NO AUX. CONTACT, AC3 DUTY, <b>63A, TPN</b>	No.	10	9555	95550
<b>9.06</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-3 DUTY , TP(AX40-30-10), ABB, <b>40A</b>	No.	7	6139	42973
<b>9.07</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-3 DUTY , TP(AX32-30-10), ABB, <b>30A</b>	No.	18	4221	75978
<b>9.08</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 2NO+2NC AUXILIARY CONTACT BLOCK, AC-3 DUTY , TP(AX09-30-10), ABB, <b>9A</b>	No.	12	1743	20916
<b>9.09</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 1 NO AUX. CONTACT, AC3 DUTY, <b>32A</b> , TP CONTACTOR; AX32-30-10	No.	10	3409	34090
<b>9.10</b>	POWER CONTACTOR COIL VOLTAGE 230V AC WITH 1 NO AUX. CONTACT, AC3 DUTY, <b>25A</b> , TP CONTACTOR; AX25-30-10	No.	15	1596	23940
<b>10</b>	Following rating of Auxiliary contactors of ABB make compatible with existing system				
<b>10.01</b>	240 V AC, 2NO+2NC; N22E	No.	14	810	11340
<b>10.02</b>	240 V AC, 4NO+4NC	No.	2	1390	2780

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10.03	240 V AC, 8 NO	No.	1	1390	1390
11	Following rating of contactors of <b>Schneider</b> make compatible with existing system				
11.01	TP POWER CONTACTOR AC1 DUTY-230V AC, LC1F150; <b>250A</b> TP,2NO+2NC	No	4	34440	137760
11.02	TP POWER CONTACTOR AC3 DUTY-230V AC, LC1D115; <b>115A</b> TP,2NO+2NC	No	2	30890	61780
11.03	4P POWER CONTACTOR AC1 DUTY WITH 230V AC, LC1D1150046, LC1D; <b>250A,4P</b> ,2NO+2NC	No	1	34440	34440
11.04	POWER CONTACTOR ,AUX CONTACT BLOCK AC-3 DUTY, TP(2NO+2NC), LC1D80; <b>80A</b> ,230V	No	10	23585	235850
11.05	POWER CONTACTOR ,AUX CONTACT BLOCK AC-3 DUTY, LC1D26; <b>25A</b> ,2NO+2NC,230V	No	3	2930	8790
11.06	POWER CONTACTOR ,AUX CONTACT BLOCK AC-3 DUTY, TP, LC1D09; <b>9A</b> ,2NO+2NC,230V	No	4	1450	5800
11.07	POWER CONTACTOR ,AUX CONTACT BLOCK AC1 DUTY, LC1E250; <b>250A</b> ,TP,CONT	No	1	55765	55765
11.08	4P POWER CONTACTOR AC1 DUTY,230V AC, LC1D1150046; <b>160A</b> ,4P,2NO+2NC	No	2	32365	64730
11.09	CONTACTOR, LC1D25; 1PH,3PH, <b>25A</b> ,50/60Hz	No	10	6100	61000
11.10	CONTACTOR, LC1D40; 1PH,3PH, <b>40A</b> ,50/60Hz	No	10	8600	86000
11.11	LC1D12M7 - 12A TP contactor	No	7	2040	14280
11.12	Aux Contactor, 2NO+2NC; 240V AC	No	2	3755	7510

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11.13	Aux contactor 3NO+1NC ,230V ac (schneider) ;use for control circuit max current 10amp	No.	20	3450	69000	
12	CONTACTOR 240A AC1,AUX 2NO+2NC; type MCX-33; make L&T; 400A FP	No.	3	24545	73635	
13	Following cast resin type of CTs with 15 VA Burden and Class 1.0 for measurement; AE make				0	
a	4000/5	No.	1	2780	2780	CTs
b	2500/5	No.	1	1400	1400	
c	1600/5	No.	1	1125	1125	
d	1000/5	No.	1	545	545	
e	800/5	No.	1	665	665	
f	600/5	No.	1	550	550	
g	400/5	No.	1	550	550	
h	200/5	No.	1	520	520	
i	160/5	No.	1	495	495	
j	125/5	No.	2	495	990	
h	100/5	No.	1	495	495	
k	250/5	No.	1	580	580	

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>l</b>	63/5	No.	1	250	250
<b>m</b>	40/5	No.	1	250	250
<b>n</b>	32/5	No.	1	250	250
<b>14</b>	Following cast resin type of CTs with 15 VA Burden and CL-5P10 for protection; AE make				
<b>a</b>	4000/5	No.	1	2780	2780
<b>b</b>	2500/5	No.	1	1400	1400
<b>c</b>	1600/5	No.	1	1125	1125
<b>d</b>	1000/5	No.	1	545	545
<b>e</b>	800/5	No.	1	665	665
<b>f</b>	600/5	No.	1	550	550
<b>g</b>	400/5	No.	1	530	530
<b>h</b>	200/5	No.	1	520	520
<b>i</b>	160/5	No.	1	495	495

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

j	125/5	No.	1	495	495	
h	100/5	No.	1	495	495	
k	250/5	No.	1	580	580	
l	63/5	No.	1	250	250	
m	40/5	No.	1	250	250	
n	32/5	No.	1	250	250	
15.00	Start Stop push buttons along with all accessories. Make L&T-ESBEE	No.	100	850	85000	
15.01	ILLUMINATED PUSH BUTTON (22.5mm Dia) Green; 230V AC,1NO; Dia 22.5mm; L&T-ESBEE	No.	25	3840	96000	Push Buttons
15.02	ILLUMINATED PUSH BUTTON (22.5mm Dia) Red; 230V AC,1NC; Dia 22.5mm; L&T-ESBEE	No.	25	3840	96000	
15.03	Lockable push buttons dia 22.5 mm, 240V ac along with all accessories. Make VAISHNO/L&T-ESBEE	No.	10	2660	26600	
16.00	<b>Following items of reputed make</b>				0	
a)	5-32A FP MCB, 10 Ka, "C" curve	No.	60	518	31080	MCBs, RCCBs, RCCBOS; Make: Legrand,
b)	40-63A FP MCB 10 kA	No.	60	2443	146580	



**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>c)</b>	32-40 Amps, TPN, MCB (10 KA)	No.	60	2443	146580
<b>d)</b>	63 Amps, TPN, MCB (10 KA)	No.	150	2443	366450
<b>e)</b>	5-32A TP MCB , 10 Ka, "C" curve	No.	60	1239	74340
<b>f)</b>	40-63A TP MCB 10 kA	No.	60	1890	113400
<b>g)</b>	5-32A DP MCB , 10 Ka, "C" curve	No.	60	756	45360
<b>h)</b>	40-63A DP MCB 10 kA	No.	60	1204	72240
<b>i)</b>	5-32A SP MCB , 10 Ka, "C" curve	No.	200	259	51800
<b>j)</b>	40-63A SP MCB 10 kA	No.	60	518	31080
<b>k)</b>	16-32Amp DP RCCB, 30 mA	No.	250	3185	796250
<b>l)</b>	40-63Amp DP RCCB, 30 mA	No.	10	3185	31850
<b>m)</b>	16-32Amp DP RCCB, 100 mA	No.	250	2912	728000
<b>n)</b>	40-63Amp DP RCCB, 100 mA	No.	10	3332	33320
<b>o)</b>	16-32Amp DP RCCB, 300 mA	No.	10	2926	29260
<b>p)</b>	16-32Amp DP RCBO, 30 mA	No.	250	4375	1093750
<b>q)</b>	40-63Amp DP RCBO, 30 mA	No.	10	5194	51940
<b>r)</b>	16-32Amp DP RCBO, 100 mA	No.	250	4690	1172500

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

s)	40-63Amp DP RCBO, 100 mA	No.	10	5436	54360	
t)	16-32Amp DP RCBO, 300 mA	No.	10	4536	45360	
u)	40-63 Amp, 4 pole RCCB, 30mA	No.	11	4270	46970	
17	Astronomical digital timer switch ( Make L&T) for installation in DBs for automatic switching On & Off of lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required. (GIC Astro Mini Astronomical Time Switch, T2DDT7)1 output per phase and suitable for single phase supply	No.	100	3250	325000	
17.1	Door limit switch conforming to IP66 as per IEC60S29. Contact blocks shall be of NO+NC. Limit switch shall be of plunger/spring type with linear movement. (Kaycee make KLS000X-OA)	No.	30	2500	75000	Door Switch
17.2	Door switch 6A, 1NO+1NC; SALZER& L&T	No.	10	450	4500	
18	<b>CONDUIT WIRING and cables</b>					Conduits, Wires & Cables
18.1	GI conduiting complete with GI junction and pull boxes, GI fish wires as specified and as shown below.					
a)	25 mm dia 1.6mm thick	M	3000	220	660000	
b)	32 mm dia 1.6mm thick	M	10	450	4500	
c)	50 mm dia 2.0mm thick	M	10	750	7500	
18.2	FRLS PVC insulated copper conductor single core cable of following sizes					

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

a)	1.5 sq mm	M	700	18	12600
b)	2.5 sq mm	M	2500	28	70000
c)	4 sq mm	M	2500	44	110000
d)	6 sq mm	M	400	56	22400
e)	10 sq mm	M	700	70	49000
f)	16 sq mm	M	200	110	22000
<b>18.3</b>	1100 V grade, armoured FRLSH XLPE, Aluminium(Al)/ cables on existing trays/ walls/ columns/indoor /trenches/viaduct including the cost of supports with suitable clamps, saddles, hooks, bolts etc. and including the cost of proper dressing of cables, markers providing identification tags, earthing of glands armouring etc. complete as per specifications, as required and as below.				
<b>a</b>	3.5 core 120 Sq mm Al conductor cable	M	500	756	378000
<b>b</b>	3.5 core 70 Sq mm Al conductor cable	M	250	620	155000
<b>c</b>	3.5 core 35 sq mm AL Conductor cable	M	100	530	53000
<b>d</b>	4 core 25 sq mm AL Conductor cable	M	2000	456	912000
<b>e</b>	4 core 16 sq mm AL Conductor cable	M	3000	372	1116000
<b>f</b>	4 core 10 sq mm AL Conductor cable	M	1000	311	311000
<b>g</b>	4 core 6 sq mm AL conductor cable	M	1000	258	258000

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>h</b>	4 core 4 sq mm AL conductor cable	M	1000	202	202000	
<b>i</b>	3 core 2.5 sq mm AL conductor cable	M	1000	350	350000	
<b>18.4</b>	3 core 2.5 sqmm copper cable	M	2000	230	460000	
<b>19</b>	<b>Fans</b>					
<b>19.1</b>	Exhaust fan with fan guards on both sides, double ball bearings, class-E insulation, capacitor (pf 0.90 or better) complete with all other accessories as per IS 2312 and as required, of following sizes:					Fans; Make: Crompton, Bajaj, Orient, Havells, Khaitan
<b>a)</b>	Size 300 mm dia, 1400 rpm	Nos	100	2500	250000	
<b>b)</b>	Size 450 mm dia, 1400 rpm	Nos	60	2800	168000	
<b>c)</b>	Size 225 mm dia	Nos	50	1800	90000	
<b>19.2</b>	230V 1 phase 1440 RPM, sweep 400mm approx bracket fan including mounting bracket, blades, starters & other standard accessories complete as required.	Nos	20	2250	45000	
<b>19.3</b>	Pedestal fans of 400mm sweep ( Crompton or Bajaj or Orient make )	Nos	30	2150	64500	
<b>19.4</b>	Ceiling fan 1400 mm , 1200mm sweep of 5 star rating suitable for operation on 230V ac	Nos	100	2250	225000	
<b>20</b>	<b>Switch and sockets</b>					Makes: Crabtree, MK Electric, CPL Obsession, Legrand, Schneider.
<b>20.1</b>	Following modular grid plate mounted switch/ (es) and socket/(s) etc.					
<b>a)</b>	6A modular switches.	Nos	200	76.72	15344	

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>b)</b>	6 Amp Universal socket with 6 amp modular switch.	Nos	400	202.16	80864
<b>c)</b>	6/16 Amps, Universal socket with 16 Amps, modular switch.	Nos	400	379.4	151760
<b>d)</b>	20/25/32A 1-Phase industrial socket outlet with 20/25/32A SP, DP MCB in a GI enclosure with IP56 protection rating with all mounting & fixing accessories & terminations with separately lockable facility complete as required.	Nos	20	1750	35000
<b>e)</b>	Industrial type reputed make extension boards of 6,16A rating (Bajaj etc)	No.	100	1610	161000
<b>f)</b>	Modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	no.	30	30.8	924
<b>g)</b>	Following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required				
<b>g.1</b>	3 Module (100mmX75mm)	no.	250	89.6	22400
<b>g.2</b>	4 Module (125mmX75mm)	no.	66	113.4	7484.4
<b>g.3</b>	6 Module (200mmX75mm)	no.	150	186.2	27930
<b>g.4</b>	8 Module (125mmX125mm)	no.	10	259	2590
<b>g.5</b>	12 Module (200mmX150mm)	no.	10	282.8	2828
<b>21</b>	<b>HIGH MAST LIGHTING</b>				
<b>21.1</b>	<b>30 m High Mast System</b>				

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>a</b>	Mini Flood Lights 200W, Philips make (LED lights)	no.	8	26000	208000	
<b>22</b>	<b>Following miscellaneous items</b>					
<b>a</b>	Industrial salt ( Non iodised and powdered form)	kg	2000	12	24000	
<b>b</b>	Distilled Water	litre	2500	5	12500	
<b>c</b>	Door lock for panels and DBs along with key compatible with the existing panels and DBs (Round, square, triangular type)	No.	150	70	10500	
<b>d</b>	Anchor fastener 12mm	No.	100	10	1000	
<b>e</b>	Aux. Contact 1 NO + 1NC for MCB	No	50	350	17500	
<b>f</b>	Gear Oil - SAE 140/90	litre	10	150	1500	
<b>g</b>	High load extreme pressure bearing Grease (SKF bearing grease -LGEP 2/5)	kg	30	150	4500	
<b>h</b>	Hooter (AMF Panel)	No.	10	1200	12000	
<b>i</b>	Isolation transformer cooling fan:220V A.C, 50/60HZ, 0.14A axial fan ( make KLILX model 120x120x38 etc )	No.	60	890	53400	
<b>j</b>	Occupancy sensor of make Hager EE811; 230v, 50 Hz, IP41	No.	20	6500	130000	
<b>k</b>	Capacitor (3.15 MFD) for Ceiling fans	No.	50	20	1000	
<b>l</b>	Winch -Crescent make 750 Kg Double Drum suitable for 30 m high mast	No.	2	7500	15000	
<b>m</b>	Cable Tie of size 300,250,150mm	No.	3000	3	9000	

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>n</b>	Emergency torch	No.	10	150	1500	
<b>O</b>	<b>Selector switch</b>					
<b>O.1</b>	SELECTOR SWITCH A/M/T,2POLE 3WAY WITH OFF; 6A ; SALZER(L&T); ROTARY type	No.	3	350	1050	
<b>O.2</b>	SELECTOR SWITCH L/R,LOCAL REMOTE SS WITH 2 POLE 2 WAY WITH OFF; 6A ; SALZER(L&T); ROTARY type	No.	3	350	1050	
<b>O.3</b>	SELECTOR SWITCH 1, DC ON/OFF SS 2 POLE 2 WAY WITH OFF; 16A ; SALZER(L&T); ROTARY type	No.	3	500	1500	
<b>O.4</b>	A/L/R SELECTOR SWITCH 3NO; 6A; L&T	No.	10	500	5000	
<b>O.5</b>	A/L/R SELECTOR SWITCH ,4P 2W WITHOUT OFF; type CAM ; 6A; make SALZER/L&T	No.	20	250	5000	
<b>O.6</b>	AUTO/MANNUAL SELECTOR SWITCH; 6A; 3 NO; L&T	No.	14	250	3500	
<b>O.7</b>	AUTO/MANNUAL SELECTOR SWITCH; 6A; 4 NO; L&T	No.	14	250	3500	
<b>O.8</b>	AUTO/MAN. SELECTOR SWITCH 3P, 3W WITH OFF; 16A,DP SW; CAM type; SALZER& L&T	No.	17	500	8500	
<b>O.9</b>	A/L/R SELECTOR SWITCH ,4P 3W WITHOUT OFF; type CAM ; 6A; make SALZER/L&T	No.	5	250	1250	
<b>O.10</b>	EMERGENCY PUSH BUTTON- VAISHNO/L&T-ESBEE; Dia 22.5mm	No.	7	80	560	
<b>O.11</b>	Breaker Control Switch (T-N-C Switch) with key(spring return); 2NO; (Make L&T)	No.	15	4000	60000	
<b>O.12</b>	Auto/Manual Selector Switch 6A, 2 pole 3 way (make L&T)	No.	15	250	3750	
<b>p</b>	On Delay Timer , 230V AC 2C/O (make GIC)	No.	15	1440	21600	
<b>q</b>	On Delay Timer , 230V AC 1C/O (make GIC/L&T)	No.	15	1440	21600	
<b>r</b>	Star Delta timer 3-120sec , 230V ac ( GIC make)	No.	7	1440	10080	

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>s</b>	Base mounted Voltage Monitoring Relay 3 phase, 4W, 415V AC, Auxiliary contact 2C/O (make L&T/GIC)	No.	10	2260	22600	
<b>t</b>	Facp battery,CR2032,3V,micro lithium cell	No.	20	150	3000	
<b>u</b>	Single phase preventer type KS002, 415 V KGN make(ump pump)	No.	15	1250	18750	
<b>v</b>	Single phase preventer- 415V AC, 230V AC AUX; cast resin; minilec	No.	10	1250	12500	
<b>w</b>	Line Tester, Taparia 813	No.	25	20	500	
<b>x</b>	Connector, Make- FTC, 35-50 mm <sup>2</sup> , 1000V	No.	200	150	30000	
<b>y</b>	THERMOSTAT 230V, AC 30-70 CENT.; ANCO make	No.	200	650	130000	
<b>aa</b>	AXIAL FLOW FAN 4 INCH, 230V, AC; 1P; AVR	No.	25	780	19500	
<b>ab</b>	GLASS FUSE WITH 230V AC FUSE BLOW INDICATOR 200mA; CONNECTWELL	No.	25	10	250	
<b>ac</b>	Water Tank sensors ; steel molded with polypropylene contact type	No.	150	60	9000	
<b>ad</b>	1 CHANGEOVER CONTACT OPEN-CLOSED + 1 CHANGEOVER FOR TRIPPED INDICATION T1-T2-T3-T4-T5-T6 (Product ID:1SDA051368R1) Used in MCCB, ABB	No.	21	1250	26250	
<b>ae</b>	MOTOR MECHANISM 230V AC of MCCB Schneider, NSX-400F MICROLOGICS 2, 400A, FP, 35KA	No.	2	60854	121708	
<b>af</b>	Terminal Block of following sizes					
<b>(i)</b>	2.5 -4 sq mm	No.	400	4	1600	
<b>(ii)</b>	16 sq mm	No.	250	18	4500	
<b>(iii)</b>	25 sq mm	No.	250	26	6500	



**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

(iv)	35-50 sq mm	No.	250	30	7500	
ag	High mast connector 63A; IP 44	No.	3	5500	16500	
ah	Level Indicator Cum Controller of following types					
(i)	CLA3-lic; Cirrus; ISO 9001:2008	No.	4	7500	30000	
(ii)	ANERGY Model No. P-16-2-3, 24Vac 300mA	No	2	4500	9000	
ai	Following Motorised valves					
(i)	Belimo motorised valve LR24A-S AC/DC 24V	No	3	25300	75900	
(ii)	Belimo motorised valve Model no. SY1-230-3-T 230 V	No	3	18500	55500	
aj	Flow switch for water flow status ; MODEL WFD60 system sensor make; minimum flow rate for alarm 4-10 gpm	No	2	7500	15000	
ak	LED drivers for station name signages of following makes :					
(i)	Make- Neenjas Model :CV-200ADRPI/P 150-300VEfficiency-89%P in-200Wlin- 1.2Avoltage -12VDCIout-16AProtection over voltage, short circuit	No	20	4000	80000	
(ii)	Make- sign tek model-ST-WP12300 INPUT AC170-260V, 3.5-25A, 50Hz OUPUT DC-12V/25A 300W MAX IP67, TEMP 50C-75C	No	20	4000	80000	
<b>Total of schedule B</b>					<b>18850649.60</b>	
<b>Total of schedule A + B (inclusive of GST)</b>					<b>32579399.60</b>	

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

S.no	Description	Total Amount in Rs.	Amount in words
1	Estimated value of Total work	3,25,79,399.60/-	Rupees Three Crore Twenty Five Lakh Seventy Nine Thousand Three Hundred Ninety Nine only
<b>S.no.</b>	<b>Quoted Amount (Rs.)</b>		
1	In words		
	In Figures		
2	Rebate in % (percentage) if any		
	In words		
	In Figures		

**Please Note:**

1. It will be deemed to include all Taxes including GST, Duties, Octroi, Royalty etc, cost of all tools, plants, labour, supervision, materials, transport, contractor's profit and establishment/overheads, together all general risks, insurance liabilities, compliance of labour laws and obligations set out or implied in the contracts.
2. The quantity of work may vary as per site requirement during contract period.
3. The payment will be made on actual basis for the work executed.
4. The Contractor may raise their 'On Account' payments on quarterly basis as per the status of work on the last day of the respective month.
5. The Financial Bid submitted is unconditional and fulfills all the requirements of the Tender Document.
6. We have completely read and understood the Bid Document. The Financial Tender submitted is unconditional and fulfills all the requirements of the Tender Document.
7. Our Financial Proposal shall be binding upon us subject to the modifications resulting from contract negotiations, up to expiration of the validity period of the Proposal. We understand you are not bound to accept any Proposal you receive.

\_\_\_\_\_

\_\_\_\_\_

Signature and Name of the Authorized Person

\_\_\_\_\_

NAME OF THE BIDDER AND SEAL

### 8.17 Form 16: Bid Capacity Information

Name and brief particulars of contract (Clearly indicate the part of the work assigned to the applicant(s))	Name of client with telephone number and fax number	Contract Value In Rupees Equivalent (Give only the value of work assigned to the applicant(s))	Value of balance work yet to be done in Rupee equivalent as on last day of the previous month of tender submission	Date of Completion as per Contract Agreement	Expected Completion Date	Delay if any, with reason	Value of work to be done during next 36 months with effect from the first day of the month of tender submission  (B)
Total							

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years.**

<b>S.No.</b>	<b>Financial year</b>	<b>Maximum Value of the Work done out of the works done during each of the last three financial years as per audited financial statements.</b>
<b>1</b>	FY 2022-23	
<b>2</b>	FY 2021-22	
<b>3</b>	FY 2020-21	

Bid Capacity (Bidder shall calculate, mention his bid capacity and enclose the supporting calculation and documents)

A = Rs. ....

N = .....years

B = Rs. ....

Assessed available bid capacity =  $2*A*N - B$

**Certificate of the Chartered Accountants / Company Auditor**

We, M/s \_\_\_\_\_, Chartered Accountants/ Company Auditors, certify that the above information is correct.

Name of Chartered Accountants / Company Auditor

Signature and Seal of Chartered Accountants/ Company Auditor

Membership Number & UDIN No. of Chartered Accountants/ Company Auditor

**Authorised Signatory**

**(Name & Designation of Authorised Signatory)**

**NOTE:**

1. The financial data in above prescribed format shall be certified by Chartered Accountant/ Company Auditor in original under his signature & stamp along with audited financial statements with UDIN and membership no.
2. Value of existing commitments for on-going works during period of 36 months w.e.f. from the first day of the month of tender submission has to be uploaded by the tenderer in Form. These data shall be certified by the Chartered Accountant with his stamp and signature in original with membership number and along with UDIN and supporting documents. **Without supporting documents, Bid capacity criteria can't be considered.**

## **8.17 Form 17: Performance Bank Guarantee**

### **PERFORMANCE SECURITY (GUARANTEE) BY BANK**

1. This deed of Guarantee made this day of ..... (Month & year) between Bank of Undersigned..... (Herein after called the “Bank”) of the one part, and Noida Metro Rail Corporation Limited (Hereinafter called “the Employer”) of the other part.
2. Whereas Noida Metro Rail Corporation Limited has awarded the contract for **“Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years” (E-tender No.: NMRC /E&M/315/ 2024)**. (Hereinafter called the “Contract”) to **M/s Contractor Name & address** (Hereinafter called “the Contractor”).
3. AND WHEREAS the Contractor is bound by the said Contract to submit to the Employer a Performance Security for a total amount of **Rs. LOA amount/- (Rupees only)**
4. Now, we the Undersigned ..... being fully authorized to sign and to incur obligations for and on behalf of and in the name of ....., hereby declare that the said Bank will guarantee the Employer the full amount of **Rs. LOA amount/- (Rupees only)** as stated above.
5. After the Contractor has signed the aforementioned Contract with the Employer, the Bank is engaged to pay the Employer, any amount up to and inclusive of the aforementioned full amount upon written order from the Employer to indemnify the Employer for any liability of damage resulting from any defects or shortcomings of the Contractor or the debts he may have incurred to any parties involved in the Works under the Contract mentioned above, whether these defects or shortcomings or debts are actual or estimated or expected. The Bank will deliver the money required by the Employer immediately/same day on demand without delay without reference to the Contractor and without the necessity of a previous notice or of judicial or administrative procedures and without it being necessary to prove to the Bank the liability or damages resulting from any defects or shortcomings or debts of the Contractor. The Bank shall pay to the Employer any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceedings pending before any Court, Tribunal or Arbitrator/s/ Arbitral Tribunal relating thereto and the liability under this guarantee shall be absolute and unequivocal.
6. This Guarantee is valid till **\*\*-\*-2027** (The initial period for which this Guarantee will be valid must be for at least 6-months (six months) longer than the anticipated expiry date of DLP as stated in RFP clause Section 4: Performance Bank Guarantee / Security Deposit.
7. At any time during the period in which this Guarantee is still valid, if the Employer agrees to grant a time extension to the Contractor or if the Contractor fails to complete the Works within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages or debts as stated under Para 5, above, it is understood that the Bank will extend this Guarantee under the same conditions for the required time on demand by the Employer and at the cost of the Contractor.

**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**

8. The Bank agrees that no change, addition, modifications to the terms of the Contract Agreement or to any documents, which have been or may be made between the Employer and the Contractor, will in no way release us from the liability under this Guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification to the Bank.
9. The Guarantee herein before contained shall not be affected by any change in the Constitution of the Bank or of the Contractor.
10. The neglect or forbearance of the Employer in enforcement of payment of any moneys, the payment whereof is intended to be hereby secured or the giving of time by the Employer for the payment hereof shall in no way relieve the bank of their liability under this deed.
11. The expressions “the Employer”, “the Bank” and “the Contractor” herein before used shall include their respective successors and assigns.
12. Notwithstanding anything contained herein:
  - a. Our liability under this Bank Guarantee shall not exceed **Rs. LOA amount/- (Rupees only)**
  - b. This Bank Guarantee shall be valid up to **\*\*-\*-2027**
  - c. We are liable to pay the Guarantee amount or part thereof under this Bank Guarantee only & only if you serve upon us a written claim or demand on or before **\*\*-\*-2027**.

In witness where of I/We of the bank have signed and sealed this Guarantee on the.....day of \*\*\*\* 2024 being herewith duly authorized.

For and on behalf of the Bank.

**Signature of Authorized Bank officials.**

Name :

Designation :

Stamp/Seal of the Bank : .....

Signed, sealed and delivered for and on behalf of the Bank by the above named in the presence of:

**Witness1.**

Signature.....

Name.....

Address.....

**Witness2.**

Signature.....

Name.....

Address.....

***RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years***

***Note:***

- 1.*** The stamp papers of appropriate value shall be purchased in the name of the Bank, who issues the 'Bank Guarantee'.
- 2.*** The 'Bank Guarantee' shall be from the Scheduled Commercial Bank based in India (Delhi NCR, Noida or Greater Noida), acceptable to Employer.

## **8.18 Form 18: Bid Details**

*The following list is intended to help the tenderers in submitting offer which are complete. An incomplete offer is liable to be rejected. Tenderers are advised to go through the list carefully and take necessary action.*

<b>S.No.</b>	<b>Particulars</b>	<b>Attached Yes/No/Not Applicable</b>	<b>Page no. (Mandatory)</b>
1	Bid Processing Fees		
2	Earnest Money Deposit		
3	Form 1: Letter of Proposal Submission		
4	Form 2: Firm Details		
5	Form 3: Eligibility Statement		
6	Form 4: Work Experience		
7	Form 5: Financial Capability Details		
8	Form 6: Memorandum		
9	Form 7: Undertaking		
10	Form 8: Power of Attorney		
11	Form 9: Saleable Form for Tender Document		
12	Form 10: Declaration of Refund of Earnest Money		
13	Form 11: Undertaking pertaining to Personnel		
14	Form 12: Proposed Personnel		
15	Form 13: Obligation/ Compliance to be ensured by Contractor		
16	Form 14: Performa for Clarifications / Amendments on the RFP		
17	Form 15: Bid offer/ BOQ		
18	Form 16: Bid Capacity Information		
19	Form 17: Performance Bank Guarantee		
20	Statutory proof of existence as the legal entity		



**RFP for Rate Contract for Miscellaneous Electrical & Mechanical (E&M) works at 21 stations, Staff quarters and RS Depot of Noida Metro Rail Corporation Ltd. for 3 years**

21	PAN certificate as per legal entity		
22	A copy of the Audited balance sheets and Profit and Loss Statements for the last 3 (Three) financial years		
23	Self-attested copy of ITR of last 3 Financial years		
24	Self-attested copy of GST registration certificate, EPF, ESI and Valid Electrical Contractor License		
25	Articles of Association and Memorandum of Association (if applicable)		
26	Any other document asked by the Employer if submitted, specify the documents  Or  Any other document which the Tenderer considers relevant		