

NOIDA METRO RAIL CORPORATION (NMRC) LIMITED

REQUEST FOR PROPOSAL (RFP)

“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot”

E- tender No.: NMRC/E&M/CAMC HVAC & SITC VRF/2026/480

Issued by:

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

Disclaimer

This Request for Proposal (RFP) Document (or "E-Tender" or "E-Bid") for **"Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot."** 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 E-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) **“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.

Data Sheet

1	Name of the Bid	“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot”
2	Approximate Cost of Work	INR 1,59,49,645.23 (including GST)
3	Time-period of contract	Three (3) years
4	Method of selection	Cost Based Selection (Lowest L1)
5	Bid Processing Fee	INR 5900 (including GST) (Rupees Five Thousand Nine Hundred only) through RTGS/NEFT only payable in favour of Noida Metro Rail Corporation Limited
6	Earnest Money Deposit (EMD)	INR 1,59,496/- (including GST) (Rupees One Lakh Fifty Nine Thousand Four Hundred Ninety Six only)
7	Financial Bid to be submitted together with Technical Bid	Yes
8	Name of the Corporation's official for addressing queries and clarifications	GM (Civil & Operation) Noida Metro Rail Corporation Limited, Block-III, 3rd Floor, Ganga Shopping Complex, Sector- 29, Noida 201301 Email: nmrcjgmelectrical@gmail.com Website: www.nmrcnoida.com, http://etender.up.nic.in
9	Bid Validity Period	180 days
10	Bid Language	English
11	Bid Currency	INR
12	Schedule of Bidding Process	
	Head	Key Dates
	Uploading of Bid	29.09.2026
	Pre-bid Meeting	06.10.2026, 11:30 HRS
	Last date of submission of Queries	06.10.2026, upto 17:30HRS
	Last date of issuing amendment/clarifications, if any	14.10.2026, 11:30 HRS
	Last Date of Bid Submission	23.10.2026, 17:30HRS
	Date of Technical Bid Opening	24.10.2026, 11:30HRS
13	Consortium to be allowed	No
14	OEM Authorization	Particularly for Chiller, OEM authorization is mandatory.
15	Account details	For Bid Processing Fee & EMD State Bank of India (04077) – Sector 18, Noida Gautam Budh Nagar, Uttar Pradesh -201301 IFSC Code: SBIN0004077 A/c No. 37707840592 A/c Type- Current Noida Metro Rail Corporation Ltd.

Note:

Tender Cost and Tender Security (EMD) is exempted for Micro & Small Enterprises (MSEs) registered with District Industries Centre or Khadi & Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Dte. Of Handicraft & Handloom or any other bodies specified by Ministry of Micro, Small & Medium Enterprises for all categories and have valid registration certificate as on date of tender submission. Only those MSEs will be eligible for Tender cost and Tender Security exemption which are having valid registration.

The Tenderer's seeking exemption from Tender Cost and Tender Security', being MSEs, shall ensure their eligibility and submit registration certificate issued by the body under which they are registered along with Terminal Validity of registration.

In absence of above requirements no exemption for Tender cost and Tender security will be allowed and their bid will be rejected and not evaluated further without the Tender cost and EMD.

No further clarification shall be sought on the above.

In case the bidder who has been exempted Tender Cost/Tender Security being Micro & Small Enterprise, and;

(i) Withdraws his Tender during the period of Tender validity; or

(ii) becomes the successful bidder, but fails to commence the work (for whatsoever reasons) as per terms & conditions of Tender; or

(iii) Refuses or neglects to execute the contract; or

(iv) Fails to furnish the required Performance Security within the specified time.

The bidder shall be debarred from participating in future tenders for a period of 1 year from the date of discharge of tender/date of cancellation of NOA/annulment of award of contract as the case may be. Thereafter, on expiry of period of debarment, the bidder may be permitted to participate in the procurement process only on submission of required Tender Cost/ Tender Security.

Further the Employer may advise the authority responsible for issuing the exemption certificate to take suitable actions against the bidder such as cancellation of enlistment certificate etc.

Content

Disclaimer	2
Glossary	3
Data Sheet	4
1. Section 1: General Information	8
Background	8
About Metro Locations	8
Communication	8
2. Section 2: Terms of Reference	10
Objective	10
General	10
Scope of Works	10
Tenure	11
3. Section 3: Instructions to Bidders	12
General instructions	12
Preparation and submission of Bids	14
Earnest Money Deposit	18
Opening and Evaluation of Bids	19
Award of Contract	20
4. Section 4: Qualification, Evaluation and Selection Process	22
Eligibility Criteria	22
Personnel	24
Compliance with Technical Specifications	24
Information of the Technical and Financial Proposal	24
Selection of Bidder	25
Notice of Award and Execution of Contract Agreement	25
Performance Bank Guarantee / Security Deposit	26
Contract during Proposal Evaluation	27
Other Instruction	27
Project Financial Terms	27
Liquidated Damages	28
5. Section 5: Special Conditions of Contract (SCC)	29
6. Section 6: Technical Specifications	44
Recommended consumables/spares	47
Employer’s Requirement for CAMC of HVAC Chiller System	49
Employer’s Requirement for SITC of VRV/VRF system	63
7. Section 7: Draft Contract Agreement	66
8. Section 8: Appendix and Forms of Tender	68
Appendix 1: Metro Alignment	68
Appendix 2: Quality Assurance	70
Form 1: Letter of Proposal Submission	72
Form 2: Firm Details	73
Form 3: Capability Statement	74
Form 4: Work Experience	76
Form 5: Financial Capability Details	77
Form 6: Memorandum	81
Form 7: Undertaking	82
Form 8: Power of Attorney	83
Form 09: Salable Form for Tender Document	85
Form 10: Declaration of Refund of Earnest Money	86
Form 11: Undertaking pertaining to Personnel	87
Form 12: Proposed Personnel	88

Form 13: Obligation/ Compliance to be ensured by Contractor	89
Form 14: Proforma for Clarifications / Amendments on the RFP	90
Form 15: Bid Offer/ BOQ (Format)	91
Form 16: Bid capacity information.....	103
Form 17: Bid Details.....	105

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 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 **“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.”**
- 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. NMRC Rolling Stock depot is around 0.5 Km from Depot Station in Greater Noida. The map is in Appendix 1: Metro Alignment

1.3 Communication

All communications should be addressed to -

GM/ Civil & Operation
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

Note:

Tender Cost and Tender Security (EMD) is exempted for Micro & Small Enterprises (MSEs) registered with District Industries Centre or Khadi & Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Dte. Of Handicraft & Handloom or any other bodies specified by Ministry of Micro, Small & Medium Enterprises for all categories and have valid registration certificate as on date of tender submission. Only those MSEs will be eligible for Tender cost and Tender Security exemption which are having valid registration.

The Tenderer's seeking exemption from Tender Cost and Tender Security', being MSEs, shall ensure their eligibility and submit registration certificate issued by the body under which they are registered along with Terminal Validity of registration.

In absence of above requirements no exemption for Tender cost and Tender security will be allowed and their bid will be rejected and not evaluated further without the Tender cost and EMD.

No further clarification shall be sought on the above.

In case the bidder who has been exempted Tender Cost/Tender Security being Micro & Small Enterprise, and;

(i) Withdraws his Tender during the period of Tender validity; or

(ii) becomes the successful bidder, but fails to commence the work (for whatsoever reasons) as per terms & conditions of Tender; or

(iii) Refuses or neglects to execute the contract; or

(iv) Fails to furnish the required Performance Security within the specified time.

The bidder shall be debarred from participating in future tenders for a period of 1 year from the date of discharge of tender/date of cancellation of NOA/annulment of award of contract as the case may be. Thereafter, on expiry of period of debarment, the bidder may be permitted to participate in the procurement process only on submission of required Tender Cost/ Tender Security.

Further the Employer may advise the authority responsible for issuing the exemption certificate to take suitable actions against the bidder such as cancellation of enlistment certificate etc.

• Section 2: Terms of Reference

2.1 Objective

Execution of **“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.”**

, 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 contractor shall execute but not be limited to maintenance for specified period, maintenance support services, obtaining relevant safety certificates or licenses or any other documents required from statutory authorities for the regular operations of **“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.”** as mentioned in 'Technical Specifications & Employer's requirement with suitable uniformed trained technician, Consumables, spare parts, modern equipment's & 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 Equipment's at site. However, the security of materials and Equipment's brought at the site will be the responsibility of the Contractor.
- d. The Contractor shall take all necessary precautions to ensure safety of the staff, adjoining structures, materials & equipment's and the work in progress as per the directions of

engineer- in-charge.

- e. Manpower (Engineer, Electrician, RAC & Helper) shall be deployed as specified in the tender documents. They shall be adequately qualified & shall be authorized to carry out the HVAC and associated 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 NMRC Depot for execution of work and maintenance of HVAC 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.
- a. Log book in hard and soft copy detailing work carried out by Contractor mentioning date, details of work completed, complaints if any etc. will be maintained and signed both by NMRC and contractor officials.
- b. 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:
 - i. Provision in NIT/BOQ
 - ii. Technical Specifications
 - iii. 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, either individually as a tenderer. 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.
- j. **The bidder must submit a valid Authorization Certificate from the Original Equipment Manufacturer (OEM) of the Chiller - M/s Trane Technologies / Trane India Pvt. Ltd. Specifically for CAMC of HVAC Chiller System, Chiller Make: Trane, Model: RHTD.**

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) 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 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 e-mail to the **GM/Civil & Operation, 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 Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS**

reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.. The responses will be posted to all such queries on the official Website 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. The relevant clauses of the e-Bid document shall be treated as amended accordingly.
- 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 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.

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.

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 fulfill 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.
- 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-Bidding 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.

- 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 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 be 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 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 sent by 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 its 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 (Incl. LLP), public limited company, 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. 1.28 Crore (Rupees One Crore Twenty Eight Lakh only) or**
 - ii. **Two similar completed works each costing not less than the amount equal to Rs. 79.75 Lakh (Rupees Seventy Nine Lakh Seventy Five Thousand only) or**
 - iii. **Three similar completed works each costing not less than the amount equal to Rs. 63.80 Lakh (Rupees Sixty Three Lakh Eighty Thousand only)**

“Similar work” for this contract shall be “SITC or CAMC or AMC of HVAC water cooled screw chiller system” 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. 42.53 Lakhs (Rupees Forty Two Lakh Fifty Three Thousand only) in the 2021-22, 2022-23, 2023-24, 2024-25, 2025-26 (on 31ST March,2026) of the previous financial year.
- d. Profit Before Tax (PBT) during previous two financial year should be positive out of last 5 financial years.
- e. Net Worth should be greater than Rs. 10.63 lakh in the last audited balance sheet ending 31 March 2026.
- f. Working capital/Net cashflow(current assets minus current liabilities should be greater than Rs. 7.60 Lakh in the last audited balance sheet ending 31 March 2026.
- 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- fulfillment of Contractual obligation in last 5 (five) financial years.
- h. The bidder should also furnish Goods and Service Tax Authority.
- i. The Bidder shall also furnish the following documentary proof:
 - i. For above criteria 4.1 a
 - Statutory proof of existence as the legal entity: Registration certificate of the firm/ Partnership deed/certificate of incorporation/Affidavit in case of sole proprietorship etc.
 - PAN certificate as per legal entity
 - Valid Electrical 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
 - Form 5: Financial Capability Details
 - A copy of the Audited balance sheets and Profit and Loss Statements for the last 3 (Three) financial years ending 31st March 2026 with distinct UDIN on each balance sheet.
 - Self attested copy of ITR of the last 3 (Three) Financial years(2023-24, 2024-25, 2025-26).
- iv. For above criteria 4.1 e
 - Form 7: Undertaking
 - Copy of GST Registration

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:

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

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

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 three financial years has to be uploaded by the tenderer in Form-5 of Tender along with audited financial statements with distinct UDIN on each balance sheet. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original along with UDIN.
- 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 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 and Form 12: Proposed Personnel, 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 organization 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/CONTRACT – PERSONNEL MINIMUM ORGANISATION STRUCTURE REQUIRED

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

S. No.	Designation of Project Personnel	Minimum qualification	Minimum Requirement	Relevant Years of Experience
1	Maintenance Manager	Degree in Electrical/ Mechanical Engineering or equivalent	1	5
2	Supervisor	Diploma in Electrical/ Mechanical Engineering or equivalent	2	5
3	Technician	ITI (Electrician/Fitter/RAC)	4+1*	2
* One technician will be at the discretion of NMRC for any E&M activity including HVAC system at any location of NGN Metro corridor.				

NOTE:-

- 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.
- The performance of Project/Contract 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

- The Bidder satisfying technical and financial eligibility criteria shall be considered as technically and financially qualified.
- The financial proposal of only technically qualified Bidders shall be opened for evaluation.
- The Bidder with the lowest quoted price for the RFP for “Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.” 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 3 years ending on the last day of the month 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 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

- i. To fulfil 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 NEFT/RTGS, or unconditional and irrevocable Bank Guarantee bond issued by a scheduled bank in favour of Noida Metro Rail Corporation Limited valid for complete Tenure or up to validity of the contract within 30 days of acceptance of Purchase order/Notice of Award. PBG shall remain valid and enforceable throughout the entire Period of the Contract, including any extension, amendments, Defect liability Period Warranty or any other alteration to the Contract. The BG shall also have a claim period of not less than Six (6) months from date of expiry of the PBG, during which NMRC shall have unconditional and irrevocable right to invoke and release the PBG, in whole or in part, without prior notice to the contractor. EMD amount of successful bidder shall be adjusted in the performance bank guarantee, if applicable. For unsuccessful bidder, EMD shall be refunded without any interest. In case of extension of tenure by 6 months, the performance bank guarantee shall be extended by 6 months or such increased period as well. The performance guarantee shall be extended or renewed in advance before expiry of existing guarantee. Failure to submit the PBG within 30 days from the date of acceptance of Purchase order/ NOA, a penal interest of 15% per annum shall be charged for the period i.e. from date of acceptance of NOA to the date of submission of PBG. In case Contractor fails to submit the PBG beyond 60 days from the date of acceptance to Purchase order/ NOA, the contract shall be annulled duly forfeiting Tender security and other dues. In case of any extension is sought for PBG, extension will be only after approval from NMRC. It shall be ensured by the bidder that the PBG can be En cashed (in case) by the issue bank branch located in Delhi/NCR, Noida or Greater Noida region only.
- ii. 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. However same PBG will hold good for any variation up of 25% of original contract.
- iii. 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.
- iv. NMRC reserves the right for deduction of NMRC dues from Contractor's Performance Bank Guarantee/ Security Deposit (interest free) for –
 - a. Any penalty imposed by NMRC for violation of any terms and conditions of agreement committed by the Contractor.
 - b. 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.
 - c. 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.
 - d. Any outstanding payment/ claims of NMRC remained due after completion of relevant actions as per agreement.
- v. 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

- i. 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/ representatives on matters related to the Proposals under consideration till the time Contract is awarded.
- ii. 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.
- iii. 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.
- iv. 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:

GM/ Civil & Operation
Noida Metro Rail Corporation (NMRC) Limited
Block-III, 3rd Floor, Ganga Shopping Complex,
Sector-29, Noida -201301
District Gautam Buddha Nagar, Uttar Pradesh
Email: nmrcjgmelectrical@gmail.com

- v. 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 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.
- c. Income Tax is deductible at source while effecting payment of bills at the prescribed percentage as per the orders of the government.
- 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.
- 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.
- l. Payment to MSME should be made within 45 days from the date of submission of Bills subject to completion of relevant documents.

4.12 Liquidated damages

Liquidated damages prescribed in General Conditions of Contract (GCC) shall be strictly applicable for this contract.

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

SCC Clause	Reference to GCC Sub-Clause No.	Description
1.1	Sub Clause 4.2.1	PERFORMANCE SECURITY 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 within 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. In case the contract value exceeds beyond 25% of the original contract value, the contractor shall have to submit additional performance security.
1.2	Sub-Clause 4.3	REPRESENTATION ON WORKS 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. 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.
1.3	Sub-Clause 4.5	SUB-CONTRACTOR 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.
1.4	Sub-Clause 4.10	SUFFICIENCY OF ACCEPTED CONTRACT AMOUNT 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. 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 & ESI, etc.

1.5		PENALTY & DEDUCTION i. If Chiller is kept out of service for more than 24 hrs due to non-availability of Spares/parts or due to lack of proper attention, NMRC shall impose a penalty of Rs 2000/- (Rupees Two Thousand Only) per day for each such case. ii. If any equipment other than Chiller on High Side or any equipment on Low Side is under fault due to non availability of spares/parts or due to lack of proper attention, NMRC shall impose a penalty of Rs 1000/- (Rupees Five hundred Only) per day for each such case. iii. Repeated violations may result in termination of the contract and forfeiture of the PBG. iv. In case of any damage to NMRC property done by any of the worker of the contractor, the actual amount will be recovered or the contractor has to repair/replace such damage at his own cost. v. 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. vi. 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.
1.6	Sub-Clause 4.14	PROGRESS REPORTS The contractor shall attend a meeting with Engineer-Incharge 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.
1.7	Sub Clause 4.15	EQUIPMENTS, MACHINERY AND PLANTS 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. The plant, machinery and equipment's brought for the execution of work, unless otherwise specified, shall be under ownership of contractor. Contractor shall not remove above plant, machinery and equipment's without permission of Engineer-in-charge. 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.

SCC Clause	Reference to GCC Sub-Clause No.	Description
1.8	Sub Clause 4.16	SAFETY A) SAFETY REQUIRMENTS The Metro Train Stations and Depot are having High Voltage Over Head Electric Lines, High Voltage Equipment's, 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. 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. The contractor is responsible to ensure that necessary and adequate personal protective equipment's are all the times available for the service to personnel working. Contractor shall ensure to provide the Hi-Visibility/ Reflecting Jackets, Safety Shoes, Helmets and other PPE's to all on site staff. 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. B) SAFETY PRECAUTIONS After the date of Notice to Proceed, the Contractor shall submit a detailed and comprehensive contract specific Site Safety Plan based on the Employer's Safety, Health and Environmental Manual (SHE Manual). The Contractor is required to make himself aware of all the requirements of the Employer's Safety, Health and Environmental Manual in this regard and comply with them. The Site Safety Plan shall include detailed policies, procedures and regulations which, when implemented, will ensure Compliance with 6.7 of General Conditions of Contract. The Contractor shall, from time to time and as necessary or required by the Engineer produce supplements to the site Safety Plan such that it is at all times a detailed, comprehensive and contemporaneous statement by the Contractor of his site safety and Industrial health obligations, responsibilities policies and procedures (under the laws of India) or as stated In the Contract or elsewhere relating to work on Site. If at any time the Site Safety Plan is, in the opinion of the Engineer, Insufficient or requires revision or modification to ensure the security of the Works and the safety of all workmen upon, and visitors to the Site, the Engineer may instruct the Contractor to revise the Site Safety Plan. The contractor shall, within 14 days, submit the revised plan to the Engineer for review. Any omission, Inconsistency or error in the Site Safety Plan or the Engineer concurrence or the rejection of the Site Safety Plan and or supplements thereto shall be without prejudice to the Contractor's obligations with respect to site safety and industrial health and shall not excuse any failure by the contractor to adopt proper and recognised safety practices throughout the execution of the Works. The Contractor shall adhere to the Site Safety Plan and shall ensure that all sub contactors of all tiers have a Copy of the Site Safety Plan and comply with its provisions. The Contractor shall notify the Engineer Immediately of any occurrence or incident that results in death or serious Injury as defined In the

		Indian Penal Code. Such Initial notification may be verbal and confirmed in writing thereafter and shall be followed by a comprehensive written report within 24 hours of the occurrence/Incident. The Contractor shall duly complete standard forms as required by the Engineer and Statutory Authorities. The Contractor shall provide and maintain all necessary temporary, fire protection and firefighting facilities on the Site during the construction of the Works in accordance with the statutory regulations and as required by the Engineer. The Contractor shall ensure that all gases, fuels and other dangerous materials and goods are stored and handled in a safe manner and in accordance with the statutory regulations and as required by the Engineer. The obligations and requirements for safety and industrial health under this Contract are entirely without prejudice to, and do not derogate from, the Contractor's statutory obligations, with respect to safety and industrial health. A minimum penalty of Rs. 10000/- shall be Imposed along with the cost of non-provision of services as per SHE manual for each instance. C) ACCIDENTS 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 & equipment as well as rolling stock, the cost of damage will be recovered from the contractor's bill. 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. D) TRAINING ON SAFETY NMRC 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.
1.9	Sub-Clause 4.17	PROTECTION OF THE ENVIRONMENT The contractor shall use the environment friendly material. The disposal of garbage shall be in environment friendly manner with proper segregation of biodegradable and non-biodegradable waste.

SCC Clause	Reference to GCC Sub-Clause No.	Description
1.10	Sub-Clause 4.18	ELECTRICITY AND WATER The Employer shall make arrangements for Water supply and Electricity necessary for the Works. The contractor shall make his own arrangements to tap the Electricity from the nominated sockets / points. The contractor shall tap the Electricity as per IE Rules & IE Act (Latest) duly following all safety precautions. The contractor shall submit full scheme for the requirement of electricity & 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. The Contractor should make his own arrangements to draw the water from the available water point to the working place in such a manner without affecting the premises. The Contractor should make his own arrangements for Electricity and Water if the Employer fails to provide Electricity and Water supply due to technical or any other reasons beyond the control of the Employer.
1.11	Sub-Clause 4.27	SECURITY OF THE SITE The police verification shall be made available by the contractor for each and every staff of contractor within one month of receipt of NOA. Without police verification and proper I-card, no staff shall be permitted to enter the premises. Security arrangements for the work shall be in accordance with general requirements and the Contractor shall confirm to such requirements and shall be held responsible for the action or inaction on the part of his staff, employees. Contractor's employees and representatives shall wear Identification Badges (cards), uniforms, helmets, safety shoes/gum boots, Hi-visibility / Reflecting Jackets and other safety / protection wear as directed by Engineer-In-charge and to be provided by the Contractor. Badges shall identify the Contractor and show the employee's name and number and shall be worn at all times while at site. All vehicles used by the Contractor shall be clearly marked with the Contractor's name or identification mark.

SCC Clause	Reference to GCC Sub-Clause No.	Description
1.12	Sub-Clause 4.28	CONTRACTOR'S OPERATIONS ON SITE All of the contractor's staff shall follow the rules and regulations, procedures in the depot premises. The contractor shall make aware all of his staff for the same.
2.1	Sub-Clause 6.2	RATES OF WAGES AND PAYMENT OF WAGES The wages considered in the tender are as Per latest Delhi schedule of rates (E&M) which comply minimum wages as applicable at that time. 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. In case of revision (increase or decrease) either in minimum wages and/or ceiling of Wage/Salary limit for payment of EPF & ESI etc, and/or in the percentage value of contribution towards EPF & 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. 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. 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 in SCC Clause 1.5.
2.2	Sub-Clause 6.4 & 4.1	LABOUR LAW & OBLIGATION OF CONTRACTOR In dealing with labour and employees, the Contractor shall comply fully with all laws and statutory regulations pertaining to engagement, payment and upkeep of the labour in India. Some of the obligation of contractor is as below for the guidance of contractor to follow: - i Display notices showing rates of wages, hours of work, wage period, date of payment, Name, Address & contact no. of the inspectors/labour officer having the jurisdiction and date of payment of unpaid wages shall be displayed in English and in Hindi. A copy of notice shall be sent to the inspector and wherever any changes occur the same shall be communicated forthwith. - ii License for employing contract labour. - iii Contractor has to pay Minimum Rates of wages in respect of that category of worker during the entire period of contract applicable time

		to time by 7th of every month. The minimum rates of wages which is notified by Government. Any change in rate shall be considered and the payment shall be made accordingly. iv Compliance of Minimum wages Act by Payment of wages to all staff through Bank Payment. Cash payment to new staff up to 2 month only may be allowed, and it will be made only in the presence of nominated representative of employer. Submit proof of minimum wages payment (Bank statement) on monthly basis to the employer. For initial 2 months of contract period relaxation of bank payment may be given on the above clause to full fill the obligation of opening of bank accounts of new contract labour, but after this initial period, wage payment to maximum staff must be through bank account only. v Fix periods in respect of which such wages shall be payment. However Wages payment period should not exceed one month. vi Wages to be paid without deduction of any kind except those specified in labour law vii Compliance of provisions & facilitate benefit under ESI act 1948 or Workmen compensation Act to the workmen. viii Deposit PF contribution in respect of all its employees up to wage ceiling limit. The PF shall be computed on minimum wages. Splitting of minimum wages will not be allowed. Submit separate ECR along with challan for ESI and PF submission for this contract on monthly basis to the employer before release of payment. Wages shown in ECR sheet should match with wages payment sheet. ix Provide First Aid facilities to contract workers at work sites, x Issue employment card to contract workers in new Form- XII. Submit certificate of compliance for this rule to the employer. xi Issue service certificate in new Form-VIII. Submit certificate of compliance for this rule to the employer. xii 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. xiii Submit a return to inspector in new Form -VII within fifteen days of the commencement or completion of each contract work under each contract. xiv File Unified Annual Return online in Form- XIV on the Shram Suvidha Portal on or before the 1st day of February following the end of the year to which it relates. xv Regular internal health check up of contract workers and maintaining health register in prescribed Form under BOCW Act and submit report. xvi To ensure treatment in case of accident/injuries suffered in performance of work including wages and compensation under WC Act. xvii Send Accident report to Regional Labour Commissioner (RLC).
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SCC Clause	Reference to GCC Sub-Clause No.	Description
		other labour laws in force and he shall be liable for compliance of all laws amended time to time.
2.3	Sub-Clause 6.9	PROVISION OF EFFICIENT AND COMPETENT STAFF The personnel deployed for the aforesaid/electrical work should be qualified, trained, efficient, competent and quality conscious in the relevant work. Contractor shall submit the documentary evidence of formal training imparted to staff prior to deputing staff for work.
2.4	Sub-Clause 6.10	PRESERVATION OF PEACE AND ORDERLY CONDUCT The contractor shall be fully responsible to ensure the discipline, and orderly conduct among the staff deployed for work. Smoking & 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.
2.5	Sub-Clause 6.11	LABOUR TO BE CONTRACTOR'S EMPLOYEE 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 sub contracting of contract and action shall be initiated accordingly which may even lead to termination of contract.
3 & 3.1	Sub-Clause 7	WORK EXECUTION AND QUALITY CONTROL MANNER OF EXECUTION 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. If the contractor needs to change the any operation method then he has to take prior approval of the engineer In-charge.

3.2	Sub-Clause 7	INSPECTION The contractor monitor the quality of the work executed and fill up the check sheet and submit 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. 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. The Engineer In-charge representative shall also inspect and check compliance of contractor for the availability of sufficient manpower, all the staff in proper uniform and have the identity card, staff is disciplined, use of protective equipment, observance of safety etc. 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.
4 & 4.1	Clause 8 & Sub Clause 8.2	TIME MANAGEMENT COMPLETION PERIOD NOA will be given for three years. However, performance of contractor will be evaluated (as per clause no 12 of SCC) for continuation of the contract for one year at a time.
4.2	Sub Clause 8.7	SUSPENSION OF WORK 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.
4.3	Clause 10	DEFECT LIABILITY PERIOD Defect Liability Period is 03 month for the Whole of the Works. After expire of DLP, Guarantee/Warranty given by OEM of the parts shall also be extended to NMRC and relevant Guarantee/Warranty document of such parts shall also be submitted to NMRC by the contractor before processing of the final bill.
5.1	Sub Clause 11.1	THE CONTRACT PRICE 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. 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.
5.2	Sub Clause 11.1.1 & Sub Clause 11.1.4	DUTIES, TAXES, ROYALTY ETC AND CHANGE IN TAXES/DUTIES 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.

SCC Clause	Reference to GCC Sub-Clause No.	Description
		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. B. Change in Taxes Duty 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. i Any new tax which is imposed on composite work contracts applicable on Metro Project. ii Change in the rate of GST on Composite work contract applicable on Metro Project as per GST act. 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. 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) & (ii) above. Any benefit on account of downward revision towards "change in Taxes/Duty" as mentioned at Sl. No. (a) (i) & (ii) above, during the original contract period or extended contract period shall be on employer's account. d. Any other changes (except on account of clause (a) (i) & (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) & (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. 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.
5.3	Sub Clause 11.1.3	PRICE VARIATION Price variation is not applicable.
5.4	Sub Clause 11.2	ADVANCE No advance shall be paid.

SCC Clause	Reference to GCC Sub-Clause No.	Description
5.5	Sub Clause 11.6	ON ACCOUNT PAYMENT APPLICATION FOR INTERIM PAYMENT CERTIFICATES Payment shall be made on Quarterly basis upon submission of Bills with requisite documents/details as mentioned in clause no. 10 of SCC 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. The contractor shall submit the check sheets, Service Sheets etc duly signed by the Engineer-In-charge's representative for work done. 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.
5.6	Sub Clause 11.15	TAX DEDUCTION AT SOURCE 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.
5.7	Sub Clause 12.6	PAYMENT IN APPLICABLE CURRENCIES Payment shall be done in INR only.
7.1	Sub Clause 14.1	INDEMNITY 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.
7.2	Sub Clause 14.2	USE AND CARE OF SITE 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.
8.1	Sub Clause 15.3	THIRD PARTY INSURANCE 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 8.2), 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.

8.2	Sub Clause 15.4	INSURANCE (IN PLACE OF GCC CLAUSE 15) INSURANCE FOR WORKERS 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. <i>Insurance cover for contractor's all risk shall be full value of contract price.</i>
9	Additional	GENERAL CONDITIONS OF CONTRACT a. 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. b. All conditions mentioned in the General Conditions of Contract (GCC) will be applicable in addition to above.
10	Additional	SUBMISSION BY CONTRACTOR ALONG WITH QUARTERLY BILL a. Labour Law Registers: 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. 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. c. Proof of Compliance of provision of ESI & 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 by Contractor. d. 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 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 & proof of payment of wages shall be submitted along with each quarterly bill. e. Proof of Compliance of provision of insurance policies as per SCC clause 8.1 & 8.2. f. Certificates by contractor for compliance of labour laws on desired format g. Monthly Summary of work done. h. Month wise work/activities verified by building authority. i. Material consumption detail. j. GST declaration on desired format of NMRC. k. Other documents as desired by NMRC time to time. 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.

SCC Clause	Reference to GCC Sub-Clause No.	Description
11.1	Additional	MATERIALS 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 CAMC.
11.2	Additional	PHOTO IDENTITY CARDS A photo I card signed by contractor and authorized signatory of NMRC shall be provided to all deputed staff and contractor representatives.
11.3	Additional	ENTRY EXIT PASS 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. Centralized 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 & A verification form of all staff engaged in NMRC immediately after issue of the 'NOA', to the office of NMRC. Verification and for the purpose of issue of entry exit pass from NMRC before start of work.
11.4	Additional	COMMUNICATION FACILITIES TO STAFF 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.
11.5	Additional	WORK TIMINGS 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.
12	Additional	EVALUATION SYSTEM FOR PERFORMANCE OF CONTRACTOR AS PER CHECKSHEET GIVEN:

CHECK SHEET FOR EVALUATION OF PERFORMANCE OF CONTRACTOR:

Month...../ Year.....

S.N.	Parameters	Conditions	Max. Marks	Penalty clause(Mark s awarded to Contract or)	Maximum Obtained
1.	Payment of minimum wage	Payment should be given on or before 7 th day of every month through bank account for the compliance of minimum wages act.	10	Note: 1 mark to be deducted for delay of each day	
2.	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.	
3.	Usage of proper material	Use of the proper material and Quantity	10	Note: 1 mark to be deducted for each non compliance	
4.	Quality of work	Effective and Qualitative work.	10	Note: 1 mark to be Deducted for each instance of non-compliance.	
5.	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	
6.	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.	
7.	Submission of quarterly bill duly enclosing all documents as per contract	By 10 th day of subsequent month	10	Note: 1 mark to be deducted for delay of each day	

Overall performance shall be judged on the marks obtained by contractor

Note:

- A. Minimum 05 marks have to be obtained in all above activities in every month(Except at Sr. No 03 & 04)
- B. Minimum 06 marks have to be obtained in each month for Sr. No 03 & 04.

S.N.	Marks Obtained	Overall Performance clause
1	Upto 50 % - On three consecutive Months	Poor – Engineer in-charge to issue warning letter to the contractor at the end of first month for improvement. If, no improvement for next two months then depot shall issue “ contract termination notice ” and prepare for new contract.
2	Above 50% and up to 80% -On three consecutive Months	Good - 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 (Sr.No. 1) shall be taken.
3	Above 80% - On 80% of contract period	Very Good - Contractor is recommended to continue to work for next one year.

6. Section 6: Technical Specifications

(A) Technical Specifications:

S.N.	NAME OF EQUIPMENT	CAPACITY	MAKE	MODEL	QTY	REMARKS
1	Screw Chillers	527.4 KW / 150 TR	TRANE	RHTD	3	AC Plant Room
2	Cooling Tower	632 KW / 180 TR	BELL	BCTI050SC2	3	AC Plant Room
3	Chilled Water Pumps (Primary pumps)	11 KW/15 HP	Xylem (ensaviour)	Series Model No. 1216	3	AC Plant Room
4	Condenser Water Pumps	15 KW/20 HP	Xylem (ensaviour)	Series Model No. 1216	3	AC Plant Room
5	AHUs					
5.1	AHU-01	5000 CFM / 14.61 TR	Waves Aircon (P) Ltd.	WDEV 50 H	1	S.No. : 61005
5.2	AHU-02	5000 CFM / 14.61 TR	Waves Aircon (P) Ltd.	WDEV 50 H	1	S.No. : 61006
5.3	AHU-03	10000 CFM / 28.17 TR	Waves Aircon (P) Ltd.	WDEV 100H	1	S.No. : 61001
5.4	AHU-04	10000 CFM / 29.5 TR	Waves Aircon (P) Ltd.	WDEV 100H	1	S.No. : 61002
5.5	AHU-05	17500 CFM / 41.63 TR	Waves Aircon (P) Ltd.	WDEV 160H	1	S.No. : 61014
5.6	AHU-06	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61017
5.7	AHU-07	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50 H	1	S.No. : 61007
5.8	AHU-08	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80 H	1	S.No. : 61018
5.9	AHU-09	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61008
5.10	AHU-10	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61019
5.11	AHU-11	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61020
5.12	AHU-12	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61021
5.13	AHU-13	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61009
5.14	AHU-14	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61022
5.15	AHU-15	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61023
5.16	AHU-16	7500 CFM / 17.84 TR	Waves Aircon (P) Ltd.	WDEV 80H	1	S.No. : 61024
5.17	AHU-17	10000 CFM / 27.57 TR	Waves Aircon (P) Ltd.	WDEV 100H	1	S.No. : 61003
5.18	AHU-18	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61010

5.19	AHU-19	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61011
5.20	AHU-20	17500 CFM / 41.63 TR	Waves Aircon (P) Ltd.	WDEV 160H	1	S.No. : 61015
5.21	AHU-21	17500 CFM / 41.63 TR	Waves Aircon (P) Ltd.	WDEV 160H	1	S.No. : 61016
5.22	AHU-22	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61012
5.23	AHU-23	5000 CFM / 12.14 TR	Waves Aircon (P) Ltd.	WDEV 50H	1	S.No. : 61013
5.24	AHU-24	10000 CFM / 27.57 TR	Waves Aircon (P) Ltd.	WDEV 100H	1	S.No.: 61004
6	Variable Frequency Drives					
6.1	VFD for chiller	110KW/150 HP	Danfoss	TR200	1	S/N: 002503H48 6
6.2	VFD for chiller	110KW/150 HP	Danfoss	TR200	1	S/N: 002403H48 6
6.3	VFD for chiller	110KW/150 HP	Danfoss	TR200	1	S/N: 002303H48 6
6.4	VFD for AHUs	AHU-1	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000224E16 7
6.5	VFD for AHUs	AHU-2	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 001002E 177
6.6	VFD for AHUs	AHU-3	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000702E 177
6.7	VFD for AHUs	AHU-4	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000402E 177
6.8	VFD for AHUs	AHU-5	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000424E 167
6.9	VFD for AHUs	AHU-6	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000102E 177
6.10	VFD for AHUs	AHU-7	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000524E 197
6.11	VFD for AHUs	AHU-8	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000102E 177
6.12	VFD for AHUs	AHU-9	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000124E 197
6.13	VFD for AHUs	AHU-10	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000202E 177
6.14	VFD for AHUs	AHU-11	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000802E 177

6.15	VFD for AHUs	AHU-12	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000602E 177
6.16	VFD for AHUs	AHU-13	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000502E 177
6.17	VFD for AHUs	AHU-14	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000302E 177
6.18	VFD for AHUs	AHU-15	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000324E 197
6.19	VFD for AHUs	AHU-16	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000424E 197
6.20	VFD for AHUs	AHU-17	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000524E 167
6.21	VFD for AHUs	AHU-18	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 001102E 187
6.22	VFD for AHUs	AHU-19	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 001202E 187
6.23	VFD for AHUs	AHU-20	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000224E 197
6.24	VFD for AHUs	AHU-21	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000902E 177
6.25	VFD for AHUs	AHU-22	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000324E 167
6.26	VFD for AHUs	AHU-23	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000302E 177
6.27	VFD for AHUs	AHU-24	Danfoss	VLT HVAC DRIVE FC 102	1	S/N: 000202E 177
7	VFD for Chilled(primary) water pumps	For primary pumps	Danfoss	VLT HVAC DRIVE FC 101	3	S/N : 075114A13 7 S/N: 075014A13 7 S/N:040614 A179
8	Chemical Dosing pumps (electronic dosing pump)		Milton Roy India (P) Ltd		4	Model V-12
9	Pumps for Water softening plant	5.5Kw, 415 V , 3 ph. Induction motor	Xylem		2	1116M6736 48
10	Automatic chilled water make up pump	0.8HP	DAB PUMPS	JET 82M	2	
11	Toilet Exhaust fans	3000CFM	KRUGER		6	

	including all connected installation like ducting, Diffusers etc.					
12	Kitchen Washer	3000/4500C FM	Waves		2	
13	Air Scrubber including all connected accessories like motor, Ducting etc.	3000/4500C FM	Waves		2	
14	Lift Pressurization Fan including all connected installation like ducting, Diffusers etc.	16000CFM	Waves		2	
15	Staircase Pressurization Fan including all connected installation like ducting, Diffusers etc.	16000CFM	Waves		3	
16	Chiller Plant Manager System of TRANE make				1 LOT	
17	Plumbing & Accessories				1 LOT	
18	Water Treatment Softener Plant (DMF, IRF & softener)				1 LOT	
19	GI Ducting & Accessories				1 LOT	
20	Electrical panel for feeding power to the HVAC system including all switchgears				1 LOT	

Recommended Consumable / Spares:-

S.No	Description
1	AHU Filters size : 610(W) x 610(H)x 50(D) mm and 610(W) x 305(H)x 50(D) mm
2	Kitchen Washer Filter
3	Air Scrubber Filter
4	Cooling Tower Fills
5	Refrigerant R 134
6	Coolant for TRANE CHILLER
7	Industrial Salt for water softener plant
8	Dual media filter
9	Iron removal filter
10	Resin for softener
11	V belts for AHU's/Toilet exhaust fans/LPF/Air Washer/Kitchen Scrubber etc.
12	Chemicals for Chemical dosing system
13	Primer and Paint for Piping and connected accessories.
14	Any other spare required for the high or Low side of HVAC system

Note: All the spares should be either OEM/TRANE recommended.

Also, to ensure that original spare parts are used:

- The invoice of spare parts from OEM or its authorized dealer is required to be submitted by the contractor before replacement.
- Engineer representative at site shall check the spare parts and related documents.

Terms and Conditions:

S. No.	Description
1	Tenders are called from the electrical/HVAC contractor complying with eligibility criteria of work experience.
2	Material shall be ISI marked or approval of the make shall be taken from the Engineer in-charge 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. - AS per CPWD DSR 2018 (latest to be considered if applicable) if the item is available in CPWD 2018. - AS per UPPWD DSR 2018 (latest to be considered if applicable) if the item is available in UPPWD DSR 2018. - AS per current market rates analysis approved by NMRC.

(B) Employer's Requirements for "CAMC for HVAC System with CHILLER at Admin Building in Depot of NMRC":

1. Objective

The objective of the contract is the "Comprehensive Annual Maintenance Contract for HVAC Equipment installed at RS Depot in NMRC network for 03 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.

2. General

- 2.1.** Comprehensive Annual Maintenance Contract for HVAC system installed at RS Depot in NMRC network for 3 years shall be done in accordance with Employer's Requirements and the other requirements of the Contract.
- 2.2.** Comprehensive Annual Maintenance Contract for HVAC system installed at RS Depot in NMRC network 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.
- 2.3.** Contractor will have to develop the Strong Service network and should have well qualified trained maintenance team for HVAC system.
- 2.4.** Contractor shall provide Tools and Instruments to NMRC which are to be used at site for execution of contract. All tools and instruments to be used should be of standard make and is approved by NMRC. The Maintenance team can take the requisite tools and testing instruments to trouble shoot the defective machine and check the functionality & performance of the machine. On completion of contract the Tools and Instruments shall be handover to NMRC. The tentative list of required tools and Instrument is as follows:-

Plier, Hammer, Screw Driver set, Insulation Tester, Clamp meter, PPM testing kit, Key Spanner Set, Tubular spanner set, T-spanner set, Grease gun, Air Blower, Water Jet pump for filter cleaning, Anemometer, Wet bulb and Dry bulb Thermometer, Vernier Caliper (Digital) etc.
- 2.5.** 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.
- 2.6.** The bidder must submit a valid Authorization Certificate from the Original Equipment Manufacturer (OEM) of Chiller - M/s Trane Technologies / Trane India Pvt. Ltd. Specifically for CAMC of Chiller Make: Trane, Model: RTHD.
- 2.7.** All spare parts including Compressor spares, Drier Core, Oil, Sensors, VFD and Controller parts etc. shall be 100% genuine OEM make only. Invoice copy of OEM purchase to be submitted along with service reports.
- 2.8.** Service engineer deputed must be OEM-trained and certified for RTHD screw chillers with valid certification.

2.9. Contractor shall submit spares/consumables expected to be used at site for next 3 months to NMRC. Contractor will have to maintain sufficient stock of all type of spares and consumables in stock in store required to maintain all the HVAC 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.

2.10. Handover of all units to the awarded tenderer will be on “as is where is basis”.

3. Detailed scope of Work:

The work for “Comprehensive Annual Maintenance Contract for HVAC system installed at RS Depot in NMRC network for 03 Years” shall be executed. All the maintenance activities shall be done in accordance with the standard maintenance procedures defined by the OEM/manufacture/metro services.

3.1 Scope of work on High Side

- a) Comprehensive maintenance of 03 Nos. Trane chiller.
 - b) Checking and Cleaning of Cooling Towers, expansion tank, y- strainers pot strainers.
 - c) Checking/ cleaning/ replacement of all parts/components found defective.
 - d) Air conditioning Plant will be operational round the clock on all working days , Sundays & Holidays or as required at site.
 - e) **All spare parts including consumables will be provided by the contractor (Refrigerant, coolant, Oil, AHU Filters, UV lamps etc).**
 - f) Routine check-up of equipment and attending to its preventive as well as breakdown Maintenance.
 - g) Cleaning of equipment, cooling tower.
 - h) **One third (1/3) of the fills of the cooling towers are to be replaced every year including all pipes, nozzles etc. complete in all respect.**
 - i) Painting on rusted area (spray/ brush) of all equipment, pipes installed in the plant room once in a year.
 - j) Compressor coverage including labor: Replacement of whole compressor or compressor's Part will be at the discretion of the contractor.
 - k) Descaling of condenser, evaporator should be done if the approach is exceeding OEM prescribed limit (7 Deg Fahrenheit).
 - l) Replacement of Condenser tubes to be done by the contractor, after carrying out Eddy Current testing (ECT) during the CAMC period.
 - m) The skilled staff shall be deputed at site for maintenance activities and for attending any breakdowns.
 - n) OEM/Trane Authorization is required to attend/replace any critical part/spare.
- The following Checks and compliance are required to be carried out. The skilled operation and maintenance staff (or Staffs) shall be deputed at site.

3.1.1 Weekly maintenance and checks:

- After the unit has operated for approximately 30 minutes and the system has stabilized, check the operating conditions and complete the procedure below :
 - Log the chiller (as per log book format attached)
 - Check evaporator and condenser pressures with gauges & compare to the reading on the clear language display. Pressure readings should fall within the following ranges specified in the operating conditions.
- Note: Optimum condenser pressure is dependent on condenser water temperature, and should equal the saturation pressure of the refrigerant at a temperature 2 to 5 degree Fahrenheit above that of leaving condenser water at full load.

➤ **Operating conditions at Full load**

S.No.	Description	Condition
1	Evaporator pressure	40-55 psig
2	Condensing pressure	85-120 psig
3	Discharge superheat	17 Deg Fahrenheit
4	Sub cooling	5-10 Deg Fahrenheit
5	EXV percent open	40-50% open in auto mode

➤ **Operating conditions at minimum load**

S.No.	Description	Condition
1	Evaporator approach	Less than 7 Deg Fahrenheit (non glycol applications)
2	Condensing approach	Less than 7 Deg Fahrenheit
3	Subcooling	2-3 degree Fahrenheit
4	EXV percent open	10-20 % open

3.1.2 Monthly maintenance and checks:

- Review operating log.
- Clean all water strainers in both the chilled & condensing water piping systems (To be done annually for Chilled water line and half yearly for condenser water line).
- Measure the oil filter pressure drop. Replace oil filter if required as per standard procedure.
- Measure and log the subcooling and superheat.
- If operating conditions indicate a refrigerant shortage, leak , check the unit and confirm using soap bubbles.
- Repair all leaks.
- Do refrigerant charge until the unit operates in the conditions listed in the note below.
- Note: ARI conditions are : condenser water: 85 degree Fahrenheit and 3 GPM per ton and evaporator water : 54-44 degree Fahrenheit.

Chiller log			
Main Tab	Run time		
	15 min	30 min	1 hr
Chiller mode			
Evap Ent/Lvg water temp			
Cond Ent/Lvg water Temp			
Active chilled water setpoint (F)			
Active current Limit setpoint (%RLA)			
Software Type			
Software version			
Reports Tab			
Evaporator			
Evap entering water temperature (F)			
Evap leaving water temperature (F)			
Evap sat Rfgt Temp (F)			
Evap Rfgt Pressure (Psia)			
Evap approach Temp (F)			

Evap water Flow switch status			
Expansion valve position (%)			
Expansion valve position steps			
Evap Rfgt Liquid Level (in)			
Condenser			
Cond entering water temperature (F)			
Cond leaving water temperature (F)			
Cond sat Rfgt Temp (F)			
Cond Rfgt Pressure (Psia)			
Cond approach Temp (F)			
Cond water Flow switch status			
Cond Head Pressure Ctrl Command (%)			
Compressor			
Compressor starts			
Compressor run Time			
System Rfgt Diff Pressure (psid)			
Oil Pressure (psia)			
Compressor rfgt Discharge temp (F)			
Discharge suoperheat(F)			
AFD			
AFD Output Power			
Frequency Command			
Settings			
Settings Tab			
Chiller			
Front Panle chilled Water Setpt (F)			
Front Panel Current Limit setpt (RLA)			
Differential to start (F)			
Differential to stop (F)			
Setpoint Source			
Feature Settings			
Chilled water reset			
Return reset ratio			
Return start reset			
Return maximum reset			
Outdoor reset ratio			
Outdoor start reset			
Outdoor maximum reset			
Mode overrides			
Evap Water Pump			
Cond Water Pump			
Expansion valve control			

Slide valve control			
Service pumpdown			
AFD control			
Display settings			
Date format			
Date			
Time format			
Time of day			
Keypad/Display lockout			
Display units			
Pressure units			
Language selection			

3.1.3 Quarterly Preventive Maintenance of Chiller:

- Three nos. preventive maintenance in a year as per **check list A.1** given. However, if required contractor may add any work content/test check in addition to the above specified minimum scope of work to be done at least once every quarter. The periodicity of the preventive schedule may also be increased, if required and nothing shall be paid extra.
- Repairing, Supply and Replacement of all major/ minor spare parts of chiller.
- Refrigerant/Oil Leak rectification.
- Refrigerant charging as and when required including nitrogen pressure testing etc.
- Check the general operation of the unit.
- Log the operating temperatures, pressures, voltages and amperages.
- Check the operation of the control circuit.
- Check the operation of the lubrication system.
- Check the Operation of the motor and starter.
- Analyze the recorded data. Compare the data to the original design conditions
- Review operating procedure with operating personnel.
- Provide a written report of completed work, operation log and indicate any uncorrected deficiencies detected.
- Log the operating temperatures.
- All skilled/technical/ unskilled manpower required for CAMC and its satisfactory execution shall be deemed to be included in the total cost.

Quarterly Maintenance of Water Cooled Chiller (Checklist A.1)			
		Date:	
S. No.	Activity	Yes/No	Remarks
1	Check 3 phase voltage, current balance. If any imbalance noticed necessary rectification to be done		
2	Check oil and refrigerant level in running condition. Ensure correct levels and charge if required.		
3	Check for any abnormal noise. If any abnormality noticed then necessary rectification to be done.		
4	Check evaporator & condenser pressure & compare with standard values. If any abnormality noticed then necessary rectification to be done.		
5	Check percentage loading & RLA setting of Chiller plant as required.		

6	Check Approach/STD temperature for condenser fouling. Perform de scaling if approach increases above 10 degree Fahrenheit (5.6 degree Celsius) or as and when required.		
7	Inspect and clean the starters.		
8	Check & record oil pump discharge pressure (for centrifugal pumps). If any variation from standard values noticed, necessary troubleshooting/rectification to be done.		
9	Measure and log the sub cooling. If any variation from standard v troubleshooting/rectification to be done.		
10	Verify proper operation/setting/calibration of safety controls. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.		
11	Check, clean and tighten all electrical connections. If any abnormality noticed necessary rectification to be done.		
12	Check all piping components for leakage of damage. Repair/rectify as required.		
13	Clean & repaint any area that shows sign of corrosion.		
14	Check the operation of the refrigerant Leak Detector. Repair/replace if required.		

3.1.4 Annual Preventive Maintenance of Chiller as per checklist A.2:

A) Check the unit thoroughly for refrigerant leaks.

- Inspect for leaks and report leak check result.
- Repair minor leaks as required (e.g. valve packing, flare nuts)
- Check the condenser fans for clearances and free operation.
- Check tightness of condenser fan motor mounting brackets.
- Check the set screws on the fan shafts.
- Visually inspect the condenser coil for cleanliness.
- Verify the performance of the fan control inverter VFD, if applicable.
- Grease bearings as required.

B) Controls and Safeties

- Inspect the control panel for cleanliness.
- Inspect wiring and connections for tightness and signs of overheating and discoloration.
- Verify the working condition of all indicator/alarm lights and LED/LCD displays.
- Test oil pressure safety device (as required). Calibrate and record setting.
- Test the operation of the chilled water pump starter auxiliary contacts, if applicable.

C) Lubrication System

- Verify the operation of the oil heaters.

D) Motor and Starter

- Clean the starter cabinet and starter components.
- Inspect wiring and connections for tightness and signs of overheating and discoloration

- Check the condition of the contacts for wear and pitting.
- Check contactors for free and smooth operation.
- Check all mechanical linkages for wear, security and clearances.
- Verify tightness of the motor terminal connections.
- Meg the motor and record readings.
- Verify the operation of the electrical interlocks.
- Measure voltage and record: Voltage should be nominal voltage $\pm 10\%$.

E) One third (1/3) of the fills of cooling tower are to be replaced every year including all connected pipes, nozzles etc. complete in all respect.

ITEM	SCHEDULE OF WORK/CHECK POINTS in annual check (Checklist A.2)	YEARLY
I. Water Cooled Chillers		
1	Check 3 phase voltage, current balance. If any imbalance noticed necessary rectification to be done.	√
2	Check Oil and refrigerant level in running condition. Ensure correct levels and charge if required.	√
3	Check the heat sink temperature. Take necessary action to keep heat sink temperature within permissible limits.	√
4	Check for any abnormal noise. If any abnormality noticed then necessary rectification to be done.	√
5	Check Evaporator and Condenser pressure and compare with standard values. If any abnormality noticed then necessary rectification to be done.	√
6	Check percentage loading & RLA setting of Chiller Plant as required.	√
7	Check Approach/STD temperature for condenser fouling. Perform descaling if approach increases above 10°F (5.6°C) or as and when required.	√
8	Inspect and clean the starters.	√
9	Check oil heater operation. Repair/Replace as required.	√
10	Check and record oil pump discharge pressure (for centrifugal pumps). If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	√
11	Measure and record oil filter pressure drop. Replace oil filter if required.	√
12	Measure and log the sub cooling. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	√
13	Verify proper operation/setting/calibration of safety controls. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	√
14	Check, clean and tighten all electrical connections. If any abnormality noticed necessary rectification to be done.	√
15	Clean all water strainers in both chilled and condenser water line. Replace if damaged.	√
16	Check all piping components for leakage or damage. Repair/Rectify as required.	√
17	Clean and repaint any area that shows sign of corrosion.	√
18	Check the operation of the Anti Fouling device. Repair/replace if required	√
19	Check the operation of Refrigerant Leak Detector. Repair/replace if required	√
20	Compressor oil analysis to be done, report to be submitted and oil replacement to be done if suggested in the report.	√
21	Replace oil filter & oil return filter/driers if differential pressure exceeds 15 PSID or annually whichever is earlier.	√

22	Clean and back flush heat exchanger of Solid State starter.	√
23	Replace coolant after cleaning heat exchanger.	√
24	Perform de-scaling of condenser & evaporator tubes if required. Usually condenser descaling is carried out yearly and evaporator descaling is carried out once in 5years. However, based on the approach temperature, descaling may be required to be conducted before schedule or may not be required at all. Decision of NMRC Engineer In Charge shall be final and binding on the contractor.	√
25	Check and calibrate (and replace if required) all safety switches & alarms for proper operation. This shall include, but not limited to:	√
25a	High pressure cut off.	√
25b	Low pressure cut off.	√
25c	Low oil pressure switch	√
25d	Oil pumps timers.	√
25e	Flow switches.	√
25f	Pump interlocks	√
25g	Systems monitor timers.	√
25h	System freeze stats.	√
25i	Vane closing switches	√
26	Check operation of each Item/ Equipment controls:-	√
26a	Temperature control stats.	√
26b	Motor load limit controls.	√
27	Megger motor winding. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	√
28	Conduct Refrigerant Leak check. If leakage found then rectify leak and charge refrigerant using standard procedure.	√
29	Check earth connections. Check the value of earthing resistance and ensure continuity of the earth strip from equipment to earth pit. If any variation from standard values noticed, necessary troubleshooting/rectification to be done	√

30	Check anti vibration mountings, rubber pads, foundation. Repair/ Replace if damaged.	√
31	Place Silica gel packet inside Control Panel	√
32	Condenser approach of chiller should be less than 7 degree Celsius, if not in range then descaling is to be performed	√

3.2 Scope of work on Low Side

1. The checking/ replacement of starter, contactors or any other type of electrical spare Installed in AHU's, pumps, cooling tower, Water treatment plant, Chemical dosing pumps.
2. To check and replace/repair the control devices like modulating motor, thermostats Solenoid switches etc.
3. The job includes routine check-up of equipment and attending to its preventive as well as Break down maintenance.
4. Checking of bearings, 'V' belts, shaft and blower -their rectification/ replacement etc.
5. To check and replace/ repair the safety devices like fire damper and all safety measures.
6. Checking/ replacement of water gauges, thermometers and any other control devices if Found defective.
7. The rewinding of motors, replacement of bearings, bushes are covered in Contract.
8. The replacement of spare parts like contractors, overload relay, fuses, bearing, 'V' belts, Shaft, blower or any kind of safety devices, controls, monitoring devices etc.
9. 50% of the AHU filters are to be replaced every year
10. Quarterly and annual maintenance as per checklist B & C.
11. Greasing of all pumps, valves etc is to be done as per requirement.
12. The following checks and compliance are required to be carried.

3.2.1 Weekly checks

1. Leakage testing of refrigeration system and to take necessary action if required.
2. Checking of water distribution/ cooling water nozzles.
3. Checking of float valve operation in water tank, expansion tank and cooling tower.
4. Checking air filters & strainers are cleaned.
5. Checking of alignment/ looseness of all the belt driven equipment and to rectify/replace if required and also tightening of nuts and bolts of mechanical equipment.
6. Lubrication is to be done for fan & motor bearings as per site requirement.

3.2.2 Monthly check

1. Checking of pump gland/seal for leakage and to take necessary action, if required.
2. Checking of leakages and operation of all valves/ solenoid valves and to rectify, if required.
3. Clean all drain and over flow points in plant rooms/ AHU's rooms.
4. Check Oil ring/ oil level for all lubricated bearings.
5. Cleaning and checking contacts of contractors of motors.
6. Checking all cables/ wires for their tightness.
7. Checking of gland/seal, coupling of pumps and cooling tower, its filters, spray nozzles, sumps piping and general area, check sound and level of vibration, motor temperature, and operation of float valves of cooling towers and to take necessary action, if any.
8. Greasing of all fans, blowers pumps and other rotary equipment.
9. Checking the motors and boards for proper Earthing.
10. Checking the motor for smooth running and for any abnormal noise.
11. Checking the motor for proper alignment and its fastening to foundation.

3.2.3 Quarterly checks (Checklist attached)

1. Check oil level in Compressor.
2. Check liquid sight glasses to determine if there is a refrigerant shortage.
3. Inspect the unit piping and coils for visible sign of leaks and to rectify if necessary.
4. Inspect entire system for any unusual conditions such as noise, vibration etc. and to take Necessary action, if required.

3.2.4 Annual checks (Check list attached)

1. Descaling/ Clean water tubes by chemical if required.
2. Remove greases from all bearing, clean repack ant to rectify if necessary
3. Clean cooling coil fins by chemical if required

3.2.5 Check list of Quarterly and Annual Maintenance for Cooling towers (Checklist B)

ITEM	SCHEDULE OF WORK/CHECK POINTS	Quarterly	Annual
1	Check for 3-phase voltage and current balance. If any imbalance noticed necessary rectification to be done.	√	√
2	Check for any abnormal noise and vibration. Adjust/rectify if required.	√	√
3	Check water level and leakage in basin and float valve. Leakage if found shall be rectified.	√	√
4	Check if the air intake is free from blockage. Adjust louvers/grills if required.	√	√
5	Inspect basin for clogging. Clean if required.	√	√
6	Drain cooling tower water if foaming/discoloration is observed.	√	√
7	Check for unusual noise and vibration in fan, fan guard motor, driver shaft and gear reducer. Adjust/Rectify if required.	√	√
8	Cleaning of cooling tower from inside and outside including body, grills, louvers and its surroundings.	√	√
9	Clean suction screen and ensure there is no plugging of air.	√	√
10	Check operation of auto bleed off valve, PH controller and TDS controller and its electrical connections. Repair/Rectify if required. (N/A for Depot System)	√	√
11	Check operation of motorized butterfly valve. Rectify/replace if required.	√	√
12	Repaint fan & fan guard, motor, shaft, gear reducer(N/A) and any other part that shows sign of corrosion.	X	√
13	Inspect the motor for lubrication and motor winding for overheating. If overheating observed then rectification of the same to be done..	X	√
14	Check fan blade tip clearance. If any abnormality noticed necessary rectification to be done.	X	√

15	Check and adjust float valve for complete open & close operation. Adjust/ Replace if faulty.	X	√
16	Check for EPB (Emergency Push Button). Repair/replace if required.	X	√
17	Check FRP & structure bolted connection. Rectify/replace if required.	X	√
18	Check and tighten loose bolts. Replace if damaged.	X	√
19	Megger motor winding. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	X	√
20	Check earth connections. Check the value of earthing resistance and ensure continuity of the earth strip from equipment to earth pit. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	X	√

3.2.6 Check list of Quarterly and Annual Maintenance for AHU (Checklist C)

ITEM	CHECK POINTS	QUARTERLY	YEARLY
1	Check for 3-phase voltage & current balance. If any imbalance noticed necessary rectification to be done.	√	√
2	Check for any abnormal noise and vibration. Rectify if any abnormality noted.	√	√
3	Check for air & water leak. Rectify the leakage	√	√
4	Inspect the condensate drain pan. Clean if dirty and clogged.	√	√
5	Check fan belts for correct tension & signs of wear & alignment of fan and motor. Correct the alignment. Replace the belts if damaged.	√	√
6	Inspect coils for cleanliness and remove any built up dust or dirt. Clean the coils with water or air pressure if required.	√	√
7	Check for damage especially to coil & filter. Replace the broken filters. Repair of any type in the coils (if required) of AHU as per need is to be undertaken by the contractor.	√	√
8	Replacement of coil of AHU (if required) is to be dealt as per site requirements.	X	√
9	Check access door and hinges for easy operation. Repair/replace the hinges if broken.	√	√
10	Check functioning of marine lights & limit switch interlock. Replace the defective lights and rectify if limit switch interlocking not working.	√	√
11	Cleaning of filters. Clean filters with low pressure water or air, as required.	√	√

12	Check flexible connections, connecting ducts and spool piece for air leakage. Repair/rectify the damage components and leakage.	√	√
13	Check and clean inlet strainers and replace if damaged.	√	√
14	Check for UV emitter tubes for termination and cleanliness. If any abnormality noticed necessary rectification to be done, UV light will be provided by contractor. However NMRC reserves the right to continue or to eliminate the use of UV tubes in AHU.	√	√
15	Check tightness, operations & condition of all electrical connections. Any damaged components to be repaired/replaced.	√	√
16	Check looseness of any bolt in fan casing motor base and correct if required.	√	√
17	Top up grease for fan shaft, blower and motor bearings, if required.	√	√
18	Check the associated damper movement, and apply grease. Rectify if damper movement is not proper.	X	√
19	Clean the AHU internally, check for corrosion and tighten all the associated nut bolts of the motor and blower. Repaint the corroded parts and replace any component if required.	X	√
20	Check / Clean coils and fins. Clean the coils with chemicals and straighten the bent fins with recommended combs. Coil cleaning shall be carried out irrespective of the decision to continue/eliminate the use of UV tubes .	X	√
21	Observe the operation of all dampers and make any necessary adjustments in linkages and blade orientations for proper operations. Rectify if damper movement is not proper.	X	√
22	Check blower shaft, scroll, impeller & bearing. Rectify/replace any damaged components.	X	√
23	Check alignment and security of driver pulleys. Align if not proper and tighten the loose components.	X	√
24	Check anti vibration mounting, rubber pads, foundation and replace/rectify if damaged.	X	√
25	Check insulation resistance (Megger) of motor. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	X	√
26	Check earth connections. Check the value of earthing resistance and ensure continuity of the earth strip from equipment to earth pit. If any variation from standard values noticed, necessary troubleshooting/rectification to be done.	X	√
27	Carry out air balancing of the whole Air Distribution System and verify the air flow at all the dampers as per design once in every year.	X	√

3.2.7 Checklist Half yearly maintenance of Pumps (Checklist D)

S.No.	Activity	Remarks/Observation
Pump		
1	Checking of foundation bolts	
2	Checking of coupling bolts	
3	Checking of earthing connection at motor	
4	Checking of availability of terminal box of motor	
5	Checking of availability of terminal box cover	

6	Checking of cooling fan on shaft	
7	Cleaning of motor & pump	
8	Checking the gland/mechanical seal leakage	
9	Cleaning of gland leakage drainage route	
10	Running the pump in auto mode	
11	Running in manual operation	
12	Checking the abnormal sound from bearings	
Pump motor		
13	Checking of foundation bolts	
14	Checking of coupling bolts	
15	Checking of earthing connector at motor	
16	Checking of availability of terminal box of motor	
17	Checking of availability of terminal box cover	
18	Checking of cooling fan on shaft	
19	Cleaning of motor & pump	
20	Checking the Gland/mechanical seal leakage	
21	Cleaning of gland leakage drainage route	
22	Running the pump in auto mode	
23	Running in manual operation	
24	Checking the abnormal sound from bearings	
25	Checking and noting the current/phase	
26	Checking the overheating of motor	
27	Greasing done if required	
28	Checking of motor coupling leveling by spirit level.	
29	Measure the insulation value and note in register between Ph-Ph & Ph-Earth.	

Note: Any other maintenance activity associated with the HVAC system may be added as per site requirement.

Time Schedule:

The contract period for execution of the above mentioned work is **Three Year**

Service Hours: 365 days X 24 hrs with 08 hours maintenance time at night 2200 hrs of previous day to 0600 hrs of following day.

- Response Time to call of failure: 30 mins.
- **Minor Fault rectification Time** : 02 Hours
- **Major Fault rectification Time** : 24 Hours
- **When Major replacement/ repair of component required-** 01 weeks. Any extension of this shall be agreed by the Employer's representative.

(C) Employer’s Requirements for “Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida”:

1. SCOPE of work for New VRV/VRF work:

This scope includes design coordination, supply, installation, testing, commissioning, and complete system integration of a VRV/VRF air conditioning system, in accordance with BOQ, approved drawings, and technical specifications.

2. System Description

- The VRV/VRF system shall operate in:
 - Cooling Mode
 - Heating Mode (
- Suitable for continuous operation under site ambient conditions.

3. Approved Makes / Brand Compliance

- The **brand selected for execution shall be the highest technical specification and standard among the approved makes listed in the BOQ**, subject to consultant/client approval.
- Typical approved may include equivalent of leading manufacturers such as:
 - Mitsubishi Electric
 - Hitachi
 - or **similar Make**

4. Technical Specifications (As per BOQ Requirements)

4.1 Outdoor Units & Indoor Units

- supply, installation, testing, commissioning, and complete system integration of a VRV/VRF air conditioning system.
- Specification & Capacity as per BOQ
- The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below, connections, inter connections etc. as required. (For capacity <40 kW ISEER 7.4, Capacity > 40 and <70 ISEER 7.5, Capacity > 70 ISEER 7.6 for Super ECSBC Building). The COP at AHRI conditions shall not be less than 4.1 for machine below 20HP (Single Module).
- Low noise operation, Anti-vibration mounting
- Intelligent capacity control, Built-in safety protections, Auto-restart feature
- Compatible with centralized control

4.3 Refrigerant Piping & Drain Piping

- Copper pipes with Insulation (ACR grade, hard drawn), Closed-cell elastomeric
- OEM-approved Refnet/Y-joints
- Nitrogen purging during brazing
- Proper supports and slope, Pressure-tested, leak-proof system,

- uPVC / CPVC drain pipe,
- Minimum slope 1:100
- Insulated & Trap and cleanout provision
- Drawing shall be submitted.

4.5 Electrical & Control System

- Power and control wiring, Shielded communication cables
- Proper earthing

4.6 Central Controller

- **Supply, installation, testing and commissioning of push-button type central controller** compatible with VRV/VRF system, capable of connecting minimum 64 indoor units for centralized control, monitoring, and scheduling.
- The controller shall monitor and control indoor and outdoor units including ON/OFF status, temperature, fan speed, and operation modes.
- It shall have provision for group control, scheduling, fault diagnostics, and real-time system monitoring.
- The scope includes all required communication wiring, accessories, addressing, programming, and integration with complete VRV/VRF system.
- **The system shall be complete in all respects, tested, commissioned, and handed over with licence** as per specifications and BOQ.

4.7 Supports & Accessories

- MS supports with anti-corrosion coating, Vibration isolators
- Hangers and clamps, Sleeves and sealing
- Cladding for exposed piping

5. Drawings & Submissions

5.1 Pre-Installation (Shop Drawings) & Post-Installation (As-Built Drawings)

- Equipment layout, Refrigerant piping with sizing, Refnet details
- Drain piping layout
- Electrical schematics & Coordination drawings
- Final installation layouts, Actual piping routing, Wiring diagrams, Equipment locations

Submission: AutoCAD + PDF + hard copies

6. Installation Standards

- As per manufacturer guidelines, Compliance with IS standards and ASHRAE
- Proper alignment and safety practices and Coordination with other services
- Trial in cooling and heating modes.
- Performance verification.

7. System Integration

CAMC for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and SITC of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.”

- Integration of all units and controller
- Functional testing of controls and alarms

8. Documentation & Handover: O&M manuals, Test reports, Warranty documents,

Training, 12 months from commissioning, Free rectification of defects.

9.Maintenance: As per NMRC VRV/VRF maintenance Manual.

7. Section 7: Draft Contract Agreement

THIS AGREEMENT made on theday of 2026 at Noida, District Gautam Budha 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 byof the company, by virtue of his designation and authorization by, **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 atrepresented 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
- (iv) Notice of Award (.....) issued by NMRC
- (v) Letter of Acceptance of NOA (.....) given byto 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. **"Any conditions, deviation, assumption, exclusion, suggestion of alternative clauses, request of amendments in conditions & specifications of work submitted by bidders along with his Technical Bid or Financial bid, which is different from the Tender Document, Corrigendum, Addendum uploaded by NMRC on the E-Tender Portal (<http://etender.up.nic.in>) or www.nmrcnoida.com and any other correspondence in this regard, shall not be treated as a part of the contract Agreement & shall not be binding upon NMRC in anyway whatsoever at any stage of work during execution or thereafter."**
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
In the presence of:
Sign of Witness 1_____

Stamp/Seal of the Employer
In the presence of:
Sign of Witness 1_____

Name_____

Name_____

Address_____

Address_____

Sign of Witness 2_____

Sign of Witness 2_____

Name_____

Name_____

Address_____

Address_____

8. Section 8: Appendix and Forms of Tender

Appendix 1: Metro Alignment

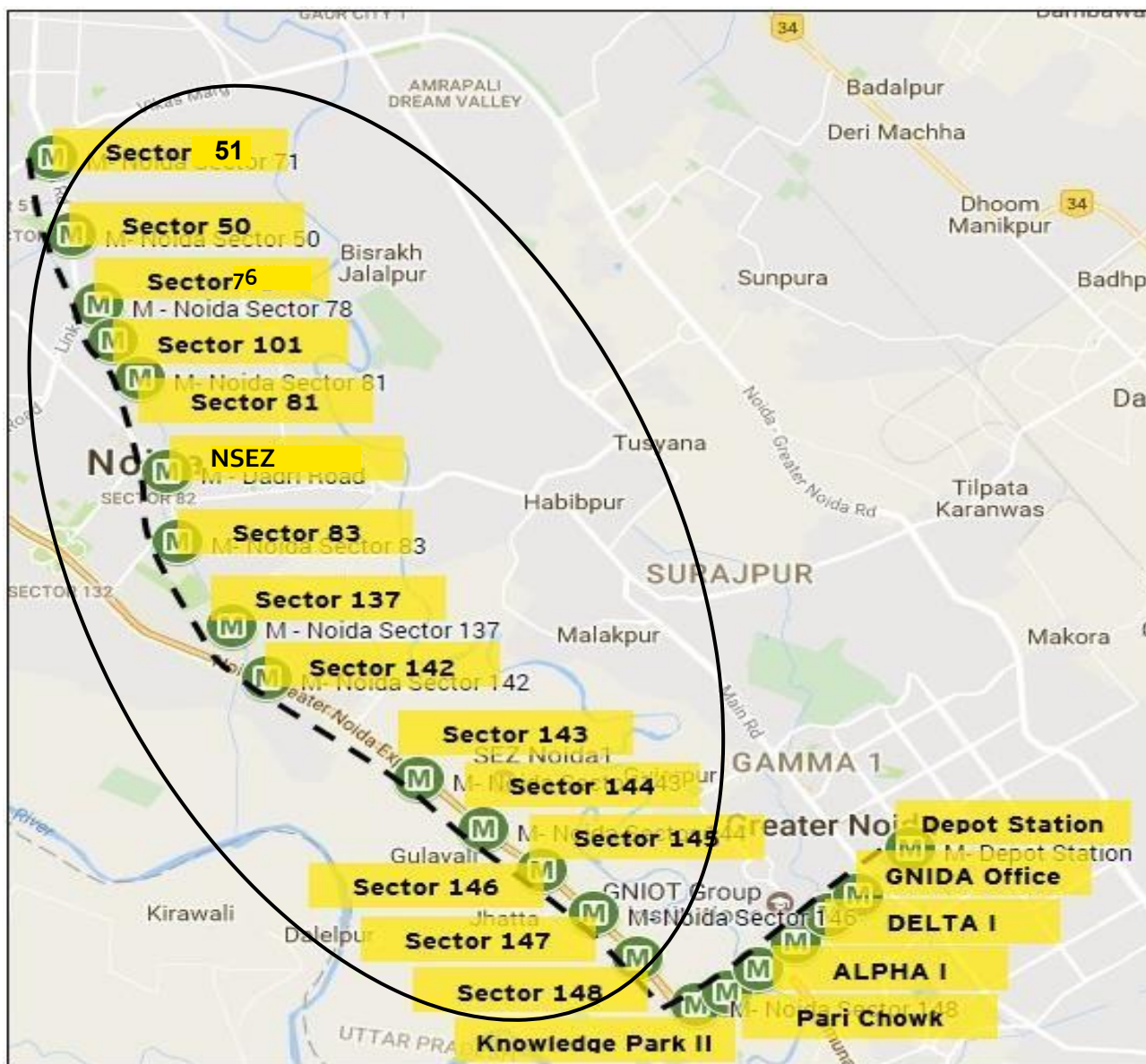


Fig: N-GN Metro Line

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

S.NO.	Name of the Station
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 ISO 9001 "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 Organization, 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 Organization. Management responsibility for the QA shall be set forth on the Contractor's policy and organization 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 authorized 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.

a. Form 1: Letter of Proposal Submission

[Location, Date]

To

GM/Civil & Operation
Noida Metro Rail Corporation (NMRC) Limited
Block-III, 3rd Floor, Ganga Shopping Complex,
Sector-29, Noida -201301
District Gautam Budh Nagar, Uttar Pradesh

Subject: Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.

Dear Sir,

We, the undersigned, offer to provide “Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot” 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:

b. Form 2: Firm Details

1.	Title and name of the Project: Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.
2.	State the structure of the Bidder's organization (Bidders to complete/delete as appropriate) Sole Bidder
3.	For Bidders who are individual companies or firms, state the following: Name of Company or firm: Legal status: (e.g. incorporated private company, proprietorship, etc.) Registered address: Year of incorporation..... Principal place of business: Contact person: Contact person's title: Address, telephone, facsimile number and e-mail ID of contact person:
4.	Employees Provident Fund No. (attach documentary proof) -
5.	Employees State Insurance Acts in India No. (attach documentary proof) -
6.	GST Registration No. (attach documentary proof) -
7.	PAN (attach documentary proof) -

c. Form 3: Capability 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: _____

S.N	<u>ELIGIBILITY CRITERIA</u>	(To be filled by the Bidder)
1	Sole proprietorship, registered partnership firm (including LLP), public limited company, private limited company can submit the Bid. The firms and the companies should be registered in India.	Yes/ No
2	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 i. One similar completed work costing not less than the amount equal to Rs. 1.28 Crore (Rupees One Crore Twenty Eight Lakh only) or ii. Two similar completed works each costing not less than the amount equal to Rs. 79.75 Lakh (Rupees Seventy Nine Lakh Seventy Five Thousand only) or iii. Three similar completed works each costing not less than the amount equal to Rs. 63.80 Lakh (Rupees Sixty Three Lakh Eighty Thousand only)	7 Years

<u>S.N</u> <u>O.</u>	<u>ELIGIBILITY CRITERIA</u>	(To be filled by the Bidder)													
3	The Bidder should have in the last 5(Five) Financial Years preceding the Bid Due Date - The Bidder should have minimum average annual turnover of Rs. 42.53 Lakhs (Rupees Forty Two Lakh Fifty Three thousand only) in the last 5 (Five) Financial Years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26) ending on 31ST March, 2026 of the previous financial year.	<table><tr><td>FY 2021-22</td><td></td></tr><tr><td>FY 2022-23</td><td></td></tr><tr><td>FY 2023-24</td><td></td></tr><tr><td>FY 2024-25</td><td></td></tr><tr><td>FY 2025-26</td><td></td></tr><tr><td>Average annual turnover</td><td></td></tr></table>	FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25		FY 2025-26		Average annual turnover		
FY 2021-22															
FY 2022-23															
FY 2023-24															
FY 2024-25															
FY 2025-26															
Average annual turnover															
4.	Profit Before Tax (PBT) during previous two financial year should be positive out of last 5 financial years. .	<table><tr><td>Financial Year</td><td>PBT</td></tr><tr><td>FY 2021-22</td><td></td></tr><tr><td>FY 2022-23</td><td></td></tr><tr><td>FY 2023-24</td><td></td></tr><tr><td>FY 2024-25</td><td></td></tr><tr><td>FY 2025-26</td><td></td></tr></table>	Financial Year	PBT	FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25		FY 2025-26		
Financial Year	PBT														
FY 2021-22															
FY 2022-23															
FY 2023-24															
FY 2024-25															
FY 2025-26															
5	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.														
6	Net Worth should be greater than Rs. 10.63 lakh in the last audited balance sheet ending 31 March 2026.														
7	Working capital/Net cashflow(current assets minus current liabilities) should be greater than Rs. 7.60 Lakh in the last audited balance sheet ending 31 March 2026.														
8	GST certificate as per legal entity														

d. 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	Role in contract	Completion cost	Value of similar work in completed work
					Individual		
1							
2							
3							
4							

Authorized signatory

Name:

Date:

Name of the Bidder with seal

NOTE:

- 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
- 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.
- 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.
- 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.
- 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.

e. Form 5: Financial Capability Details

Bidder should submit their financial details as per the following:

This is to certify that the Average Annual Turnover and Profit Before Tax of M/s

.....
having registered office at

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

1. Average Annual Turn over

S.No.	Financial year	Name of the Bidder	Turnover
1	2021-22		
2	2022-23		
3	2023-24		
4	2024-25		
5	2025-26		
	Average Annual Turnover		

2. Profit Before Tax

S.No.	Financial year	Name of the Bidder	Profit before tax
1	2021-22		
2	2022-23		
3	2023-24		
4	2024-25		
5	2025-26		

- Working capital/Net cashflow (current assets minus current liabilities should be greater than Rs. 7.60 Lakh in the last audited balance sheet ending 31 March 2026.
- The Details Furnished in Form 5 Financial capability should be Consistent with duly reconcile with the Corresponding Figures are reflected in the Balance sheet and Profit & Loss Accounts. Further the details verified through the UDIN should also be In Conformity with the Financial Statement and should provide clear year wise detail for the relevant financial years.

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 2022-23, FY 2023-24 and FY 2024-25 is correct.

Signature and Seal of
Chartered Accountants/Statutory Auditors
(with membership no.)

UDIN No. -

Authorised Signatory
(Name & Designation of Authorised Signatory)

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. and UDIN no.
3. The Bidder shall provide the audited annual financial statements as required.

FORMAT OF BANK GUARANTEE (FOR PERFORMANCE SECURITY)

(The Bank Guarantee shall be issued from any Nationalized Bank or Scheduled Commercial Banks on non-judicial stamp paper of appropriate value)

BANK GUARANTEE NO..... dated

This Deed of Guarantee is executed at.....by..... (Name of Bank), having its Head/Registered Office at..... (hereinafter referred to as the "Guarantor"), which expression shall, unless repugnant to the subject or context, include its successors and assigns.

In favour of

The Noida Metro Rail Corporation Limited (hereinafter referred to as "NMRC"), having its office at 3rd Floor, 3rd Block, Ganga Shopping Complex, Sector-29, Noida, Distt.- Gautam Budh Nagar, Uttar Pradesh-201301, which expression shall, unless repugnant to the subject or context, include its successors and assigns.

WHEREAS:

1. NMRC has awarded the contract for (Name of Work) to M/s (hereinafter referred to as the "Contractor") vide Notice of Award (NOA) No. dated
2. The Contractor has agreed to execute and complete the Works in accordance with the terms and conditions of the Contract Agreement. The Contract is for a period of ____ from the date of commencement, unless otherwise terminated or extended in accordance with the Contract.
3. Under the terms of the NOA/Contract Agreement, the Contractor is required to furnish an unconditional and irrevocable Bank Guarantee of Rs. (Rupees only) as Performance Security for the due performance and fulfilment of its contractual obligations.
4. At the request of the Contractor, the Guarantor has agreed to issue this unconditional and irrevocable Bank Guarantee in favour of NMRC for Rs. (Rupees only).

NOW, THEREFORE, THIS BANK GUARANTEE WITNESSETH AS FOLLOWS:

1. The Guarantor, as Principal Debtor and not merely as a surety, irrevocably and unconditionally undertakes to pay NMRC, without demur, reservation, contest, protest or recourse and without reference to the Contractor, any amount demanded by NMRC up to the maximum amount guaranteed herein, on the same working day on receipt of NMRC's written demand.
2. A written demand sent by NMRC to the Bank by Post/Courier/by hand or by any electronic means to the Bank's address/email stated herein shall constitute a valid demand under this Guarantee, irrespective of the date on which it is received by the Bank. NMRC shall not be required to initiate proceedings against the Contractor, obtain a court/tribunal order, establish the Contractor's liability or provide any reason or evidence in support of its demand.
3. NMRC shall be the sole judge of whether the Contractor has defaulted in the performance of its obligations under the Contract, and NMRC's decision in this regard shall be final and binding on the Guarantor. The Guarantor shall honour NMRC's demand notwithstanding any difference or dispute between NMRC and the Contractor or any proceedings pending before any Court, Tribunal, Arbitrator or other Authority.
4. Payment by the Guarantor under this Guarantee shall be made notwithstanding any other security available to NMRC and without first proceeding against the Contractor. The liability of the Guarantor is absolute and unequivocal and shall arise solely upon receipt of NMRC's demand in accordance with this Guarantee.

5. This Guarantee shall be irrevocable and shall remain valid up to (date), or for such extended period as may be required by NMRC and communicated to the Bank, subject to the terms stated herein.
6. Where extension of the Contract requires continuation of this Guarantee, the Guarantor shall renew it at least sixty (60) days before its expiry, and such renewal shall be continued as required until completion of the Contract and discharge of the Contractor's obligations. Failure to extend the Guarantee within the stipulated period shall entitle NMRC to invoke and encash the Guarantee under the principle of "extend or pay".
7. The Contractor shall ensure that, during the final year/period of the Contract, the Guarantee remains valid for the remaining Contract period plus the applicable period stipulated under the Contract, including any applicable claim/defect liability period, and shall renew it where required until final settlement of accounts and discharge of contractual obligations. Failing such renewal, NMRC shall be entitled to invoke and encash the Guarantee without prior notice to the Contractor.
8. This Guarantee shall remain enforceable until all amounts payable under it have been paid. It shall be released by NMRC after completion of the Contract and fulfilment of the Contractor's obligations to NMRC's satisfaction, subject to recovery/adjustment of any amounts due from the Contractor and/or submission of a fresh or renewed Guarantee, wherever applicable.
9. The Guarantor's obligations shall not be affected or discharged by any amendment or variation of the Contract, extension of time, postponement, non-exercise or delayed exercise of any right by NMRC, or any indulgence granted by NMRC to the Contractor. No such act, omission or indulgence shall relieve the Guarantor of its obligations under this Guarantee.
10. This Guarantee shall not be affected by any change in the constitution, winding up, absorption, merger or amalgamation of the Contractor or the Guarantor with any other person.
11. NMRC shall, at its option, be entitled to enforce this Guarantee against the Bank as Principal Debtor in the first instance, without proceeding against the Contractor and notwithstanding any other security or guarantee available to NMRC in relation to the Contractor's obligations.
12. The expressions "Bank"/"Guarantor" and "Contractor" used herein shall include their respective successors and assigns.
13. This Guarantee shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the Courts at Distt. Gautam Budh Nagar, Uttar Pradesh.
14. The Guarantor declares that it has full power and authority to issue this Guarantee and discharge the obligations contemplated herein, and that the undersigned is duly authorized to execute this Guarantee.
15. This Guarantee shall come into effect forthwith and shall remain in force until the date stated herein or any extended date communicated by NMRC. It shall not be revoked by the Guarantor without NMRC's prior written consent.

Notwithstanding anything contained hereinabove:

- a) Our liability under this Bank Guarantee shall not exceed and is restricted to Rs.(Rupees only).
- b) This Guarantee shall remain in force up to
- c) Unless a demand/claim under this Guarantee is served upon us in writing on or before, all rights under this Guarantee shall stand automatically forfeited and the Guarantor shall be relieved and discharged from all liabilities hereunder.
- d) All claims under this Bank Guarantee shall be payable at /branch (located in Delhi/NCR/Gautam Budh Nagar/Gurugram). Email id of the branch is

IN WITNESS WHEREOF THE GUARANTOR HAS EXECUTED THIS GUARANTEE ON THE DAY, MONTH AND YEAR FIRST ABOVE MENTIONED THROUGH ITS DULY AUTHORISED REPRESENTATIVE.

For and on behalf of theBank.

Signature of authorized Bank officials

Name:

Designation:.....

I.D. No.:

Stamp/Seal of the Bank:

Signed, Sealed and Delivered for and on behalf of the Bank by the above named.
In the presence of:

Witness 1

Signature
Name
Address

Witness 2

Signature
Name
Address

ADDITIONAL REQUIREMENTS FOR SUBMISSION / EXTENSION OF BANK GUARANTEE

1. The following requirements are to be complied with while submitting an extension/revised Bank Guarantee:
2. The First Party in the stamp paper should be Noida Metro Rail Corporation Limited (NMRC) and the Second Party should be the issuing Bank.
3. The name and designation of the executing Bank officials, along with their authority/signing power (Power of Attorney/authorization), should be clearly mentioned.
4. Signatures of the witnesses should be ensured on the Bank Guarantee.
5. The Bank Guarantee must remain valid for the entire duration of the Contract. Further, the claim expiry date should be at least six (6) months beyond the expiry date of the Bank Guarantee.
6. Stamp duty on the Bank Guarantee should be paid by the issuing Bank.
7. Summary Page of BG should be attached along with the BG. This is appended as below:

Sr. No.	Particulars	Details
1	e-stamp Payment certificate No	
2	e-stamp Issuance date	
3	Amount of Stamp duty	
4	Amount of Stamp duty paid by	
5	State of Execution	
6	Article No/Article ID/Description of Document	
7	Bank Guarantee No	
8	Bank Guarantee Amount	
9	BG Expiry date	
10	BG Claim expiry date	
11	Bank Guarantee Beneficiary	
12	Issuing Bank Branch	

These requirements shall be read along with the applicable provisions of the Contract/NOA and the Bank Guarantee format.

f. Form 6: Memorandum

Name of Work: “Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot”.

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:

Signature of witness:

Address:

Occupation

g. 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

h. 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 **“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot”** 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
.....
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).

i. Form 09: Saleable Form for Tender Document

DETAILS OF BID 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 E-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 E-tender documents. If the copy of UTR receipt is not uploaded with the E-tender the tender shall be rejected.

BIDDER

j. Form 10: Declaration of Refund of Earnest Money

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

[illegible]

The above provided information is true to the best of my knowledge.

Date:

Signature with Stamp/Seal

k. 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

I. Form 12: Proposed Personnel



NAME	:	.....
EMPLOYEE ID	:	.....
FATHER'S NAME	:	.....
DATE OF BIRTH	:	.....
PERMANENT ADDRESS	:	..... .....
RESIDENTIAL ADDRESS	:	..... .....
MARITAL STATUS	:	.....
EDUCATIONAL QUALIFICATION	:	.....
TECHNICAL QUALIFICATION	:	.....
EXPERIENCE	:	.....
LANGUAGE KNOWN	:	.....
NATIONALITY	:	.....
CATEGORY	:	.....

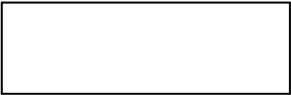
DATE:

PLACE:

(To be filled by contractor)

Attested by authorised person

SIGNATURE



m. Form 13: Obligation/ Compliance to be ensured by Contractor

Sl. 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.
iii	Insurance for workers/ employees	Clause 15.4 of the GCC	All of the contractor's employees shall have to be covered under ESI and ECA as per Special conditions of contract.
iv	Insurance cover for Contractor's All Risk and other requirements as specified in the GCC	Clause 15 of the GCC	100% 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

n. Form 14: Performa for Clarifications / Amendments on the RFP

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

Authorized signatory

Name:

Date:

Name of the Bidder with seal

o. Form 15: Bid Offer/ BOQ (Format)

To

GM/Civil & Operation

Noida Metro Rail Corporation (NMRC) Limited

Block-III, 3rd Floor, Ganga Shopping Complex

Noida -201301,

District Gautam Budh Nagar, Uttar Pradesh

Sub: Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.

Dear Sir,

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

I/we hereby quote for the Total Price for Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.

BOQ

Tender Inviting Authority- Noida Metro Rail Corporation (NMRC) Ltd.

Name of Work- Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot.

Contract No- :

Bidder Name:-

Price Schedule

(This BOQ Template must not be modified/replaced by the Bidder and same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the bidder name and values only)

BOQ for Comprehensive Annual Maintenance Contract (CAMC) for HVAC System with CHILLER at Admin Building in Depot of NMRC for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida.

Sl. No.	Location	Item Description	Qty	Units	RATE (Excl. GST)	Total Amount (Excl. GST)
1	2	3	4	5	7	8
1.00	CHILLER PLANT & ADMIN BUILDING	Comprehensive AMC of Chiller Plant System, comprises mainly : Trane Make Chiller 3No.s*150TR with Danfoss Make VFD Bell Make Cooling Tower of 3No.s*180TR capacity. Xylem Make Chilled Water Pumps of 3No.s*11 KW/15 HP Rating Xylem Make Condenser Water Pumps of 3No.s*15 KW/20 HP Rating with VFD of Danfoss Make etc.				
		·Preventive Maintenance as per equipment the check sheet given in Technical details of RFP.				
		·Breakdown calls to be attended with timelines.				

	·All parts/equipment's associated with chiller.				
	·Descaling (Condenser of Chiller) once in a year (With best practice for efficient and reliability)				
	·Oil Analysis once in a year from Third Party.				
	·Eddy Current Testing once in 2 years.				
1.01	Comprehensive Maintenance Chiller Plant Manager system (Trane Make)				
1.02	1st Year	3.00	Lot		
1.03	2nd Year	3.00	Lot		
1.04	3rd Year	3.00	Lot		
2.00	Comprehensive Maintenance of Low Side equipment , comprises mainly: 1.) 24No.s AHU of following capacity: 9*5000CFM,8*7500,4*10000CFM, 3*17500CFM each associated with Danfoss Make VFD drive.				
2.01	Comprehensive Maintenance of Building Management System (Schneider Make)				
2.02	Comprehensive Maintenance of following equipment's : 1.) Toilet Exhaust Fans : 06No.s*3000CFM, 2.) Staircase Pressurization fans: 03No.s*16000CFM, 3.) Lift Pressurization Fans: 02No.s*16000CFM, 4.) Kitchen Scrubber 2No.s*4500CFM, 5.) Air Washer 02No.s*4000CFM.				
2.03	1st Year	1.00	Lot		
2.04	2nd Year	1.00	Lot		
2.05	3rd Year	1.00	Lot		
Total CAMC Amount for both High Side and Low Side for 3 years (Excl. GST)					
@ GST Rate					
Total CAMC Amount for both High Side and Low Side for 3 years (Incl. GST)					

3.00	11 No.s AHU Rooms & Office Area	Supplying, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect and approved drawings and specifications of following sheet thickness complete as required. Thickness 0.8 mm sheet (22 gauge)	252+48=300	Sqm		
3.01		Supplying and fixing of following thickness duly laminated aluminium foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required. 19mm	300+540=840	Sqm		
4.00	AHU Rooms	Supplying, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc and as per specifications complete etc. as required. for Fresh Air Supply in AHU.	5	sqm		
4.01		Supply & installation of XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of 13 mm thick insulation with removal of Chilled line Existing insulation, Surface cleaning, Pipe Sizes (150mm/100mm/80mm/60mm Diameter)	170	sqm		
4.02		Supply and installation Aluminium Sheet Cladding on AHU Pipe over Nitrile insulation complete in all respect. Pipe Sizes	170	sqm		

		(150mm/100mm/80mm/60mm Diameter)				
4.03		Supply installation of Stainless Steel Siphon for Pressure Gauge installation Size: 1/2 inch Pipe-end.	48	Nos		
4.04		Supply and Installation of Automatic Air Vent for Air Purging 25mm size.	6	No.s		
4.05		Air leakage sealing with sealant on existing duct and Supports after rust removal from Ducts and Supports.	11	Lot		
4.06		Painting along with Primer work on MS Supports, Y-Strainer, Butterfly valve etc. in 11 AHU Rooms.	11	Lot		
4.07	Office/Admin Areas	Supplying, Fixing, installation, testing and commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core as per specifications complete etc. as required. Size:600*600mm.	1	Sqm		
4.08		Supply and Installation of GI Angle support with GI Threaded Tie rod, GI Nut Bolts and Fastner on Air duct, Pipes with primer and paint etc.	100	Kg.		
4.09	Admin Building	Chiller Plant Manager system (Trane Make) - Supply, installation, testing, and commissioning with Compatible latest version software with Windows OS update on the designated workstation, ensuring compatibility and optimal performance, thereby achieving complete restoration of the CPM system. [With Comprehensive Maintenance]	1	Nos.		
4.10		Building Management System (Schneider Make) - Supply, installation, testing, and commissioning with Compatible latest version software with Windows OS update on the designated workstation, ensuring compatibility, optimal performance, and graphical interfacing, thereby achieving complete restoration of the BMS system. [With	1	Nos.		

		Comprehensive Maintenance]				
5.00	Chiller Plant Room	Supply, installation , testing and commissioning of gear operated Agitator and Assembly for Tank size of 850 litres, 1000mm dia x 1182 mm height, top open suitable for HDPE Brine tank. Mounting Arrangement: The agitator should be typically mounted on a sturdy support frame at the top of the brine tank, allowing the impeller to be submerged in the water-salt mixture. Construction Material: The stirrer/agitator parts should be made of durable materials suitable for corrosive environments, such as stainless steel. Agitator Assembly: 1 HP to 3 HP motor suitable as per site requirement, a vertical shaft (SS pipe), and a Cast Iron (CI) impeller or propeller to mix the brine. Impeller Type: Propeller-type agitators	1	No.s		

6	NMRC Head office	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for 20HP and above modules, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 52°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit is with Two stage oil separation system, to retain maximum oil within the Outdoor Unit & avoid separate Ideal RUN of compressor for oil recovery. The Outdoor Shall be capable with capacity control technology with utilizes precise temperature monitoring by +/- 0.1 Deg C and control of scroll compressor frequency to reduce compressor on/off cycles and improve temperature stability under part-load conditions with with 0.1Hz precision. The unit shall be filled with first charge of the refrigerant and ready for use as required. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below, connections, inter connections etc. as required. (For capacity <40 kW_r ISEER 7.4, Capacity > 40 and <70 ISEER 7.5, Capacity > 70 ISEER 7.6 for Super ECSBC Building). The COP at AHRI conditions shall not be less than 4.1 for machine below 20HP (Single Module).				
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	Notes: All outdoor unit coils & fins should be treated with hydrophilic coating or better anti- corrosion treatment at factory or in the presence of respective OEM's at site. This special anti-corrosion coating shall ensure greater resistance to salt damage and atmospheric corrosion caused by such elements as sea, spray, rain etc. All interconnecting piping, joints and U bends within the condensing unit shall be painted with two coats of clear transparent polymer coating or better for protection against corrosion from ambient conditions. The outdoor units shall be provided with suitable stand with vibration isolator pad. The stand shall be made out of heavy gauge galvanized steel tubular / channel / angle section of minimum thickness 5mm including providing & fixing of mounting accessories like base plate / anchor fastener / clamps / nuts / bolts etc. The stand when installed at location shall be provided with anti-corrosive treatment through two coat of red-oxide and 2 coat of enamel paint of approved shade or galvanizing spray complete as required.				
12 HP	Per HP	3			
Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, drain pan, necessary accessories etc., suitable for operation on 230 V $\pm$ 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19					

	Degree C WB temperature.				
6.01	Wall Mounted Unit : 1.0 TR(1.3 HP) / 420 CFM	Each	3		
6.02	Wall Mounted Unit : 1.2 TR(1.6 HP) / 530 CFM	Each	11		
6.03	Wall Mounted Unit : 1.6 TR(2.0 HP) / 580 CFM	Each	4		
6.04	Wall Mounted Unit : 2.0 TR(2.5 HP) / 670 CFM	Each	3		
6.05	Supply, Installation, testing and commissioning of copper Y-joints and headers. Joints shall be of same Original Equipment Manufacturer (OEM) make as of ODUs and IDUs (Outdoor Multi Joint)	Each	21		
6.06	Supply, installation, testing and commissioning of push button type central controller which connects minimum 64 indoor unit for controlling, Scheduling & monitoring of indoor unit and outdoor unit. The Central Controller control and monitor indoor units in terms of ON/Off Status, temp. Status, Fan Speed, ODU On/Off Status etc. with all accessories and controls. It shall be as per specifications and Schedule.	Each	1		

7.00		Supply, fabrication, installation, testing of Interconnecting refrigerant copper pipe work with closed cell nitrile rubber tubular insulation with GC cloth rated for "O" Class between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with channel support .Refer tender specification for detail description.				
7.01		41.27 mm O.D (wall Thickness-1.4 mm) (Insulation: 19 mm)	Rmt	8		
7.02		34.9 mm O.D (wall Thickness-1.2 mm) (Insulation: 19 mm)	Rmt	12		
7.03		31.8 mm O.D (wall Thickness-1.2 mm) (Insulation: 19 mm)	Rmt	4		
7.04		28.58 mm O.D (wall Thickness-1.0 mm) (insulation : 19 mm)	Rmt	35		
7.05		25.4 mm O.D (wall Thickness-1.0 mm) (insulation : 19 mm)	Rmt	48		
7.06		22.2 mm O.D (wall Thickness-1.0 mm) (insulation : 19 mm)	Rmt	108		
7.07		19 mm O.D (wall Thickness-1.0 mm) (insulation : 19 mm)	Rmt	15		
7.08		15.86 mm O.D (wall Thickness-1.0 mm) (insulation : 19 mm)	Rmt	98		
7.09		12.7 mm O.D (wall Thickness-0.8 mm) (insulation : 13 mm)	Rmt	108		
7.10		9.5 mm O.D (wall Thickness-0.8 mm) (insulation : 13 mm)	Rmt	55		
7.11		6.4 mm O.D (wall Thickness-0.8 mm) (insulation : 13 mm)	Rmt	5		
8		Supply and fixing of 40 mm heavy duty PVC drain pipe	Rmt	50		
9		Supply and fixing of vibration pad and Base suitable for 12 HP outdoor VRF/VRV AC	Nos	3		
10		Supply and fixing of 4Cx 16 Sqmm XLPE copper cable with thimble & gland and complete in all respect from supply point to outdoor unit connection	Rmt	70		
11		Supply and fixing of 4Cx 4 Sqmm XLPE copper cable with thimble & gland and complete in all respect from outdoor unit to indoor unit connection	Rmt	100		

12		Supply and fixing of 4Cx 6 Sqmm XLPE copper cable with thimble & gland and complete in all respect from outdoor unit to indoor unit connection	Rmt	50		
13		Supply and fixing of weatherproof IP 65 / above Poly three phase panel box with 3 MCB TPN of 40 A, with Main incomer of 100 Amp MCCB of 35 KA, Surge protection and single phase protection etc.	Nos	1		
Total amount (for BOQ 3,4....13) (Excl. GST)						
% GST Rate						
Total amount (for BOQ 3,4....13) (Incl. GST)						

Total Quoted amount in words Rupees (Incl GST) _____

Note:- 1. Rate of Escalation of quoted CAMC price per year over the base year should not be more than 5 % otherwise the CAMC price of three years shall be adjusted accordingly.
2. This contract will be valid for three years and can be further extended by 2 years as decided mutually by the Contractor & Engineer. CAMC price per year for the extended period of 2 years shall be escalated by 5% over the base year. The base year shall be the quoted rate of previous year.

Please Note:

1. The Bidder with the lowest quoted cost for **“Comprehensive Annual Maintenance Contract for HVAC Chiller System at Admin Building of NMRC Depot for 3 years and Supply Installation, Testing & Commissioning of VRV/VRF System at NMRC Head Office at Sector-29, Noida including One time work of CPM, BMS reinstatement, SITC of Ducting, Insulation, Cladding etc. at NMRC Depot”** in the financial quote (L1 bidder) shall be selected for the award of contract.
2. 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.
3. The quantity of work may vary as per site requirement during contract period.
4. The payment will be made on actual basis for the work executed. For SITC work 50% payment may be raised on supply of the material.
5. 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 for CAMC work.

6. The Financial Bid submitted is unconditional and fulfills all the requirements of the TOR Document.
7. We have completely read and understood the Bid Document. The Financial Tender submitted is unconditional and fulfils all the requirements of the Tender Document.
8. 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

p. 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
Total							

S.No.	Financial year	Total Value of Work done as per audited financial statements
1	FY 2022-23	
2	FY 2023-24	
3	FY 2024-25	
4	FY 2025-26	

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 = $2 \cdot A \cdot N - B$

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

Authorized Signatory

(Name & Designation of Authorized 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 along with UDIN.
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.

RFP for Comprehensive Annual Maintenance Contract (CAMC) for HVAC System with CHILLER at RS Depot of N-GN Metro corridor for 3 years

q. Form 17: 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.

S.No.	Particulars	Attached Yes / No / Not Applicable	Page no. (Mandatory)
1	Bid Processing Fees		
2	Earnest Money Deposit		
3	Form 1: Letter of Proposal Submission		
4	Form 2: Firm Details		
5	Form 3: Capability 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 09: Salable 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(Format)		
18	Form 16: Bid Capacity Information		
19	Form 17 : Bid Details.		
20	Statutory proof of existence as the legal entity		
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		