



CONTRACT – UG – L & E (PHASE-II)

DETAILED DESIGN, DETAIL ENGINEERING, PROTOTYPE, MANUFACTURE, SUPPLY, DELIVERY AND STORAGE AT SITE, INSTALLATION, TESTING AND COMMISSIONING (INCLUDING INTEGRATED TESTING & COMMISSIONING), TRAINING OF PERSONNEL, DEMONSTRATION OF PERFORMANCE OF SYSTEM/ EQUIPMENT & ANNUAL MAINTENANCE CONTRACT OF LIFTS & ESCALATORS (L & E) OF FOUR UNDERGROUND STATIONS OF KOLKATA METRO EAST-WEST LINE PROJECT (PHASE-II)

TENDER DOCUMENTS

VOLUME – 6

PRICING DOCUMENT

**Kolkata Metro Rail Corporation Limited
KMRCL Bhawan, 2nd and 3rd Floor,
Munshi Premchand Sarani
Kolkata 700 021
India**

Date of issue: 29th May 2019

SUMMARY OF TENDER DOCUMENTS

- Volume 1
 - Notice of Invitation to Tender
 - Instructions to Tenderers (including Annexure)
 - Form of Tender (including Appendices)
- Volume 2
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 - General Conditions of Contract
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 - Safety, Health and Environment (SHE) Manual (CD)
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INSTRUCTIONS FOR COMPLETING THE PRICING DOCUMENT

A. General Requirements

1.1 Financial Evaluation:

The evaluation of Tender is to be done based on total cost inclusive of all taxes and duties in “**SUMMARY OF COSTS**”.

- 1.2 The Tenderers shall quote their rates for individual items included in Appendix A (under Schedule-X), Appendix-B (under Schedule-Y). Appendix-G1, Appendix-G2, Appendix-G3, Appendix G5, Appendix G6 & Appendix G7(under Schedule-X), Appendix-D2, Appendix-D3 (Under Schedule-Y) and Appendix-D1 which shall be inclusive of all statutory Taxes and Duties at prevailing rates. For the purpose of comparative evaluation of Tenders, the Total quoted Price in Appendix A, Appendix-B, Appendix-D1, Appendix-D2, Appendix-D3, Appendix-G1, Appendix-G2, Appendix-G3, for Lift & Escalator System (L&E) of Four Underground Stations **INCLUSIVE** of all Taxes and Duties shall be used to determine the rank of the Tenderers.

This is an item rate (BOQ) Contract for Detailed Design, Detail Engineering, Prototype, Manufacture, Supply, Delivery and Storage at Site, Installation, Testing And Commissioning (including System Acceptance Testing, Integrated Testing & Commissioning and Operational Acceptance), Demonstration of Performance of System and Equipment, Annual Maintenance Contract for Lift & Escalator System (L&E) of Four Underground Stations along with the provision of Operation and Maintenance Manuals, Training of Operation and Maintenance Personnel, Technical support for a complete Lift and Escalator System, Supply of Spares, Special Tools and Maintenance Tools and AMC for the Kolkata Metro Rail East West Line Project as indicated in the Appendix -1 to Form of Tender). The Tenderer shall quote his item-wise rate(s) inclusive of all taxes, duties, insurances and other charges levy able and payable to the authorities as in this Pricing Document.

The scope and extent of the Works are to be ascertained by reference to the Contract documents as a whole and shall not be limited in any manner whatsoever by the descriptions of the items of works, as given in the Appendices to the Pricing document.

The Tenderer is required to mention relevant CGST, SGST and IGST rates and value as per GST act & rules, considering of their applicability in Appendix-C.

The tenderer is also required to provide the item-wise BCD rate, insurance & any other cess.

The successful Tenderer shall maintain complete records of duties, taxes, etc. payable to various authorities in respect of completely assembled/ manufactured equipment appearing in Appendix-A and, spares appearing in Appendix G and submit the receipts/records as and when demanded in writing by the Employer for verification.

1.3 Price Variation

Refer to SCC Clause 48

1.4 Supply of Spares, Special Tools and Testing Equipment

The Tenderer shall quote the item-wise rates for spares, special tools and testing equipment in accordance with Volume 3, General Specification, in Appendix G1 to Appendix G7 (except Appendix G4) of this Pricing Document.

- 1.4.1 The Tenderer shall indicate the annual percentage that shall be applicable for increase or decrease of the unit rate of each item/spare listed in Pricing Document Appendix G5, Appendix G6 and Appendix G7 for procurement by Employer for a period of up to ten years after the completion of Annual Maintenance Contract for UG / EL – L&E (PHASE-II)

1.5 Training Requirements

The Tenderer shall include and price with rates in his tender submission a Training proposal to meet the following requirements as per Employer's Requirements – General Specification.

- (i) Training of Employer's maintenance personnel (4 man months each for L&E equipment) in operation and maintenance of off-shore Lifts and Escalator.
- (ii) Training of Employer's maintenance personnel (15 man months each for L&E equipment) in Contractor's / sub-contractor's Works.
- (iii) Provision of Original Equipment Manufacturer (OEM) Experts / Instructors (40-man months each for L&E equipment) for Training of Employer's maintenance personnel in India.
- (iv) Submission of Training Manuals (Original plus five hard copies) and in Electronic format for the L&E systems.

The Tenderer shall include the cost for each component module of the Training in Financial Package under "Schedule Y". The travel, boarding and lodging expenses for the Employer's trainees shall be borne by the Employer. The Employer may at its absolute discretion delete any or all of the training modules while accepting the tender.

1.6 Remark, Comment, Condition or Deviation (Appendix-I of this Tender Document)

- 1.6.1 In this Appendix I, the Tenderer shall indicate every key date that shall be affected by each remark, comment, condition, qualification or deviation, etc. that has been specified in Appendix-11 and prices for unqualified withdrawal of which has been quoted in this Appendix I. Prices for unqualified withdrawal **in Appendix I shall be added to the total price quoted for the purpose of evaluation.**
- 1.6.2 In case price for unqualified withdrawal of any remark, comment, condition, qualification or deviation, etc... indicated in Appendix 11 is not quoted in this "Appendix I" it shall be considered that the remark, comment, condition, qualification or deviation is unconditionally withdrawn without any financial implication.

B. NOT USED

C. Statutory Clearance

The Contractor shall be solely responsible for all the statutory clearances including levies, duties, taxes, cess, insurance, transportation etc required for the successful execution of this

contract.

D. NOT USED

E. Payment Schedule (PS)

The Tenderer shall note Sub-Clause 11.5 of the GCC and SCC Clause 54 that describes the method of determining interim payments.

The Tenderer shall note the Payment Schedule given in Appendix E of this Pricing Document.

Terms of payment during AMC Period have been defined in Clause 47 of the SCC and Appendix-D1 of Volume -6.

F. Tender Total

- 1.1 Tenderers shall be deemed to have read the Tender Documents and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices to include the full scope of the Contract, including overheads and profits and shall bear a proper relationship to the cost of carrying out the work described. Notwithstanding any limits that may be implied by the wording of the individual items and/or the explanations in the Preamble, the rates and sums, which the Tenderer enters in the Bill of Quantities, shall be for the work finished complete in every respect. The Tenderer shall be deemed to have taken full account of all requirements, liabilities, obligations and risks, whether expressed or implied, and to have priced the items accordingly. The Items in the Bills of Quantities are the only items against which payment will be made. The cost of any item of work not specifically described or measured in the Bills of Quantities but required for the execution of the Contract shall be considered included in the unit rates for the measured items in the Bills of Quantities. The rates and sums shall therefore include all incidental and contingent expenses and risks of every kind necessary to supply, install, test and commission (including Integrated Testing and Commissioning) complete, and remedying any defects in the whole of the Works in accordance with the Contract.
- 1.2 The Tender Total submitted by the Tenderer shall be in the format shown in “Summary of Cost” of this Pricing Document. Individual total value of Appendix A (under Schedule-X), Appendix-G1, Appendix-G2, Appendix-G3, (under Schedule-X) & Appendix-B, and Appendix-D1 AMC (under Schedule-Y) inclusive of all statutory Taxes and Duties at prevailing rates shall constitute the total value of the tender..
- 1.3 The Pricing Document contains Schedule X, Schedule Y. Each Schedule covers activities, obligations and requirements constituting the rates for individual items of works in the Bill of Quantities. The Tenderer shall prepare and complete documents, in this format, as being his Tender and submit as part of the Financial Package..
- 1.4 The Tenderer shall divide pricing of item-wise rates into Columns A and B, if payments in foreign currency are to be sought. Items of works that apply in one currency only shall be given a NIL price in the other column
- 1.5 The Pricing Document shall be completed and submitted by the Tenderer, as part of his Tender. The Tenderer shall use an indexing and page numbering system such that its extent

and completeness is clearly evident.

G. Currency

Rates for the items of works in the Bills of Quantities shall be indicated in Indian Rupees and maximum number of currencies of payment shall not be more than three including local currency (INR). The two foreign currencies can be either from Japanese Yen, Euro or US Dollar.

H. Mode of Payment

In case of JV/consortium payments shall be made in the name of the same JV/consortium.

I. Measurement and Payment

- 1) This Contract is primarily a **re-measure contract** with items that are described herein. The quantities indicated in the Bills of Quantities are as estimated. For the re-measure items the total price paid for a work item will be varied by the quantities actually performed & measured. The contract may contain some lot items for which special payment terms are described.
- 2) The measurement and payment described is for the purpose of making a valuation of the work acceptable to the Engineer, and Interim Payments to the Contractor, as work proceeds. The works as executed will be measured for assessment of progress for interim payments in accordance with the method adopted in the Specification, the Bills of Quantities and under the items as set forth notwithstanding any custom to the contrary.
- 3) For the purposes of making interim payment for lot items and those items are not subject to re-measure, such as described as “Lot”, the Contractor shall submit with his tender a breakdown of the rates making up the total for those items for which the Contractor may wish to receive interim payments. These breakdowns shall be subject to the approval of the Engineer, and no interim payment shall be made on such items until the breakdown has been approved, with the approval of Engineer. The items described as ‘set’ may also be broken down in a maximum of two lots for the purpose of interim payment under exceptional circumstances when it is established that the contractor is not able to complete the ‘set’ for reasons not attributable to him.
- 4) Notwithstanding anything stated herein the Engineer retains the right to withhold payment on any item due for payment when the service to be performed is not performed, or is not carried out to the Engineer’s satisfaction..
- 5) Prices for documents, drawings, design calculations including validation/verification, test procedures, interface co-ordination documents, operation and maintenance manuals and the like, for review by the Engineer shall be the full compensation for documents and the like in accordance with the specifications. Compensation shall include for the preparation,

submission, and all subsequent revisions, changes required and re-submittals as necessary and required by the specifications until accepted by the Engineer.

- 6) Prices for Supply shall be full compensation for Manufacture, Factory Testing, Inspection, Test Running, Dispatch, Delivery at Site, Marine Insurance if applicable, Shipping to Port in India and Transit Insurance from Port in India to Site, if applicable, Inland Transportation/Delivery to Project Site and Storage at Site as necessary and required by the specifications until accepted by the Engineer.
- 7) Prices for Integrated Testing and Commissioning shall be full compensation for the integrated testing and commissioning of plant and equipment supplied under the Contract in accordance with the drawings and specifications. Compensation shall include preparation, submittal, and revisions as required by the Engineer of testing plans and procedures; co-ordination with other Designated Contractors; conduct of approved tests as directed by the Engineer on equipment, sub-systems, and systems; revisions, re-testing, fault finding, adjustments and reworking as necessary; submittal of all test reports and other documents all to the approval of the Engineer. The Contractor will make payment for each Section after certification and acceptance of the Employer's representatives that the sub-systems and systems, including all equipment have successfully completed the test procedures, and have been set-to-work and all test results and other documentation, as described in the specifications.
- 8) Payment will be made for the items delivered and stored in a place and manner approved by the Engineer. Payment on delivery will be made against the following documents:
 - provision of Indemnity bond for interim payment;
 - proof of insurance;
 - Packing list
 - Manufacturing Test Certificates
 - Type Test Certificates; and
 - FAT Report
 - "Notice of No Objection" or "Notice of No Objection subject to_____" from the Engineer/Employer
- 9) Prices for installation/erection of items of plant and equipment shall be for the full compensation for the installation/erection of plant and equipment in accordance with the drawings and specifications. Compensation shall include all costs incurred for transporting to location, off-loading and moving to point of installation/erection; provision of specified foundations; preparing for installation/erection and mounting on foundations; supply of left out items, aligning, fastenings and securing devices; adjusting as necessary, making good and clearing the location on completion, all to the approval of the Engineer. Payment will be made for each item of installed plant and equipment completed and accepted by the Engineer after obtaining "Notice of No Objection" or "Notice of No Objection subject to_____" from the Engineer/Employer
- 10) Testing and commissioning shall be full compensation for the testing and commissioning of Plant and equipment forming the Works in accordance with the specifications. Compensation shall include all testing and putting-to-work of all equipment, sub-systems, and systems; re-

testing, fault finding, adjustments and reworking as necessary; submittal of all test reports and other documents all to the approval of the Engineer. Payment will be made after certification by the Contractor and acceptance by the Engineer that the sub-systems and systems, including all equipment have successfully completed the test procedures, and have been set-to-work and that all test results and other documentation, as described in the specifications, have been approved by the Engineer/Employer after . obtaining "Notice of No Objection" or "Notice of No Objection subject to _____" from the Engineer/Employer



CONTRACT – UG- L & E (PHASE-II)
DETAILED DESIGN, DETAIL ENGINEERING, PROTOTYPE,
MANUFACTURE, SUPPLY, DELIVERY AND STORAGE AT SITE,
INSTALLATION, TESTING AND COMMISSIONING (INCLUDING
INTEGRATED TESTING & COMMISSIONING), TRAINING OF
PERSONNEL, DEMONSTRATION OF PERFORMANCE OF SYSTEM/
EQUIPMENT & ANNUAL MAINTENANCE CONTRACT OF LIFTS &
ESCALATORS (L & E) OF FOUR UNDERGROUND STATIONS OF
KOLKATA METRO EAST-WEST LINE PROJECT (PHASE-II)

TENDER DOCUMENTS

VOLUME – 6

PRICING DOCUMENT WITH
BILLS OF QUANTITIES

Kolkata Metro Rail Corporation Limited
KMRCL Bhawan, 2nd & 3rd Floor
Munshi Premchand Sarani,
3rd Floor, Kolkata 700 021
India

Date of issue: 29th May 2019

SUMMARY OF COSTS

This is to be completed and submitted by the Tenderer as part of Appendix -2 to the Form of Tender. The Total Price (inclusive of levies, tax, Cess and insurance, etc... payable) of this Contract for Lifts & Escalator System is the total of **Schedule 'X' plus Schedule 'Y' plus Appendix D1**

Indian Rupees (in words): _____

Foreign Currency (in words): _____

Schedule	Description of Appendixes under schedule	Cost in Foreign Currency (A)		Cost in Indian Rupees
		(A1)	(A2)	(B)
X	Total of Appendix A= A1.1+A1.2+A2.1+A2.2+A3.1+A3.2+A 4.1+A4.2			
	Total of Appendix G1+G2+G3			
Y	Total of Appendix B= B1.1+B1.2+B2.1+B2.2+B3.1+B3.2+B 4.1+B4.2			
	Appendix D2 + Appendix D3			
AMC	Appendix D1			
Grand Total (Contract Price)	Schedule X + Schedule Y + AMC (Appendix D1)			

DETAILED BILLS OF QUANTITIES UNDER SCHEDULE-X AND SCHEDULE-Y

UNDER SCHEDULE-X:

Appendix	BOQ for	Station/Location
A1.1	Lift System	Esplanade Station
A1.2	Escalator System	
A2.1	Lift System	Mahakaran Station
A2.2	Escalator System	
A3.1	Lift System	Howrah Station
A3.2	Escalator System	
A4.1	Lift System	Howrah Maidan Station
A4.2	Escalator System	

Appendix	BOQ for	Station/Location
G1	Consumable Spares	
G2	Unit Exchange Spares	
G3	Mandatory Spares	
G4	Commissioning and DLP Spares	
G5	Recommended Spares & Consumables for Ten Years after DLP	
G6	Special Tools & Maintenance Tools	
G7	Intermediate Overhauling Spares	

UNDER SCHEDULE-Y:

Appendix	BOQ for	Station/Location
B1.1	Lift System	Esplanade Station
B1.2	Escalator System	
B2.1	Lift System	Mahakaran Station
B2.2	Escalator System	
B3.1	Lift System	Howrah Station
B3.2	Escalator System	
B4.1	Lift System	Howrah Maidan Station
B4.2	Escalator System	

APPENDIX-D1	Comprehensive Annual Maintenance Contract (AMC) for a period of ten years after DLP
D 1	Comprehensive Annual Maintenance Contract (AMC) of Lifts & Escalators of Kolkata East West Metro Project (Phase-II) for a period of ten years after DLP

APPENDIX-D2	Training of Employer's Personnel
D 2.1	Training of operation and maintenance personnel of the Employer for Lift works
D 2.2	Training of operation and maintenance personnel of the Employer for Escalator Works
APPENDIX-D3	Preparation and Submission of Operation and Maintenance Manuals
D 3.1	Operating Manual for Lift System (Original plus three (3) copies in the required Format
D 3.2	Maintenance Manual for Lift System (Original plus three (3) copies in the required format)
D 3.3	Operating Manual for Escalator System (Original plus three (3) copies in the required format)
D 3.4	Maintenance Manual for Escalator System (Original plus three (3) copies in the required format)

UNDER SCHEDULE-X

APPENDIX A1.1 to A4.2 AND SCHEDULE G1, G2 & G3

Cost for various Items of Works in Appendixes under Schedule-X comprise all those obligations and ongoing activities throughout the Contract not associated directly with any other Schedule and Appendix. To be entitled for payment, the contractor is required to **obtain the "Notice of No Objection" or "Notice of No Objection subject to _____" from the Engineer/Employer for:**

The Lift & Escalator equipment and materials including all accessories

- Detailed Design of the complete Lift & Escalator System based on technical specification and drawings provided in the Tender document with a reference to the items of works and their quantities included in the Bills of Quantities,
- Detailed Engineering,
- Selection of suppliers for major system and sub-systems,
- Prototype & Manufacture,
- Completion of all routine and type testing of equipment and accessories at works,
- Completion of all Factory Acceptance Tests, Endurance Test on Proto type and Issue of Inspection Certificate on satisfactory completion of all Factory Tests/running,
- Completion of test running in factory,
- Completion of manufacture, testing, running, etc... and inspection/clearance of each Lifts & Escalators Equipment by the Engineer,
- Completion of the shipment to port in India (if required),
- Supply, Delivery to site,
- Provision of Marine Insurance (if required) from off-shore Factory to Port in India,
- Provision of Transit Insurance (if required) from Port in India to Site,
- Inland transportation/delivery of manufactured items within India including handling charges at port of India and/or at Site, and all other incidental costs, receipt of equipment's at Site,
- Any additional modifications as determined during the testing of the Lift & Escalator Equipment at works.
- Any other item(s) considered necessary to comply with Scope of Work.

UNDER SCHEDULE-Y

APPENDIX B1.1 to B4.2, D2 AND D3

Cost for various Items of Works in Appendixes under Schedule-Y comprise all those obligations and on-going activities throughout the Contract not associated directly with any other Schedule and Appendix. To be entitled for payment, the contractor is **required to obtain the "Notice of No Objection" or "Notice of No Objection subject to _____" from the Engineer/Employer for**

This shall include but not be limited to:

- Delivery/transportation to installation site from Contractor's premises in Kolkata, Handling, of all Lifts & Escalators of Four Underground Stations of Kolkata East-West Line Project (Phase-II)
- Submission of Construction Plan, installation drawings, circuit diagrams for construction,
- Submission of Validation test plan,
- Pre-installation tests, inspection of equipment and Site preparations,
- Complete fixing, cabling and wiring of all Lifts & Escalators of Four Underground Stations of Kolkata East-West Line Project (Phase-II) in accordance with circuit and installation diagrams,
- Installation of all Lifts & Escalators of Four Underground Stations of Kolkata East-West Line Project (Phase-II) including testing and commissioning,
- Training of Employer's Personnel,
- Preparation and Submission of Operation Manuals,
- DLP Requirement (Specified in detail elsewhere)

Post installation tests at Employer's site including:

1. Pre-power up checking, power up, customisation and configuration of equipment.
2. Local functional test for all Lifts & Escalators including degraded modes.
3. Functional test.
4. Partial Acceptance Tests in accordance with accepted Acceptance Plan.
5. Calibration of All meters and Sensors.
6. Testing And Commissioning (including integrated testing & commissioning)
7. Obtaining certificate of satisfactory completion of functional and safety tests and working of the Lifts & Escalators of Four Underground Stations
 - Completion of Integrated Testing and Commissioning in the Site.
 - Safety Certification, in the approved format, for Lifts & Escalators of Four Underground Stations.

- Detailed Safety Report including the safety features and safety standards for Lifts & Escalators of Four Underground Stations.
8. Service Trials.
 9. Guarantee Tests to obtain the operational acceptance Certificate.
 10. Demonstration of Performance of System / Equipment.

Any other item(s) considered necessary to comply with the Scope of Works such as, but not limited to, Insurance, Annual Maintenance Contract and Maintenance during Defect Liability Period.

APPENDIX C1

DETAILS OF TAXES / LEVIES, ETC... INCLUDED IN THE CONTRACT PRICE (APPENDIX A) (SCHEDULE-X)

(Refer to Paragraph A of Part I, Instructions for Completing the Pricing Document)

ITEMS OF WORKS IN	TAXES, CESS, ETC...															TOTAL AMOUNT OF ALL TAXES / LEVIES / CESS (7)=sum of (1) to (6)
	SAC CODE UNDER GST	BASIC CUSTOM DUTY		STATE GOODS & SERVICE TAX (SGST)		CENTRAL GOODS & SERVICE TAX (CGST)		INTEGRATED GOODS & SERVICE TAX (IGST)		OCTROI/ENTRY TAX		INSURANCE		ANY OTHER TAX/LEVY/ CESS		
		(1)		(2)		(3)		(4)		(5)		(6)		(7)		
		Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	
APPENDIX-A																
A1.1																
A1.2																
A2.1																
A2.2																
A3.1																
A3.2																
A4.1																
A4.2																
G1																
G2																
G3																

ITEMS OF WORKS IN	TAXES, CESS, ETC...															TOTAL AMOUNT OF ALL TAXES / LEVIES / CESS (7)=sum of (1) to (6)
	SAC CODE UNDER GST	BASIC CUSTOM DUTY		STATE GOODS & SERVICE TAX (SGST)		CENTRAL GOODS & SERVICE TAX (CGST)		INTEGRATED GOODS & SERVICE TAX (IGST)		OCTROI/ENTRY TAX		INSURANCE		ANY OTHER TAX/LEVY/ CESS		
		(1)		(2)		(3)		(4)		(5)		(6)		(7)		
		Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	
G5																
G6																
G7																

Notes:

1. The Tenderer is required to mention relevant CGST, SGST and IGST rates and value as per GST act & rules, considering of their applicability. The tenderer is also required to provide the item-wise BCD rate, insurance & any other cess considered for this contract.
2. The rates inserted in this table shall be made with due reference to the relevant clauses of the Taxes in the General and Special Conditions of Contract and shall be fixed as of 28 days prior to the opening of the tender for tender evaluation purpose.
3. The rates inserted in this table shall only be considered for payment on actual basis unless otherwise stated elsewhere in the document and it shall be based on the submission of the original documentation.
4. All Taxes / Levies should be in INR only and are subject to ceiling of the amounts indicated in the above Table.
5. The tender shall provide the **Services Accounting Code (SAC)** under which services fall under GST.

SIGNATURE OF TENDERER

Contract-UG-L & E (PHASE-II) – Detailed Design, Detailed Engineering, Prototype, Manufacture, Supply, Delivery and Storage at Site, Installation, Testing And Commissioning (including integrated testing & commissioning), Training of Personnel, Demonstration of Performance of System/ Equipment & Annual Maintenance Contract of Lift & Escalator System (L & E) of Four Underground Stations of Kolkata Metro East-West Line Project (Phase-II)

APPENDIX C2

DETAILS OF TAXES / LEVIES, ETC. INCLUDED IN THE CONTRACT PRICE (APPENDIX B) (SCHEDULE Y)

(Refer to Paragraph A of Part I, Instructions for Completing the Pricing Document)

ITEMS OF WORKS IN	TAXES, CESS, ETC...															TOTAL AMOUNT OF ALL TAXES / LEVIES / CESS (7)=sum of (1) to (6)
	SAC CODE UNDER GST	BASIC CUSTOM DUTY		STATE GOODS & SERVICE TAX (SGST)		CENTRAL GOODS & SERVICE TAX (CGST)		INTEGRATED GOODS & SERVICE TAX (IGST)		OCTROI/ENTRY TAX		INSURANCE		ANY OTHER TAX/LEVY/ CESS		
		(1)		(2)		(3)		(4)		(5)		(6)		(7)		
		Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	
APPENDIX-A																
B1.1																
B1.2																
B2.1																
B2.2																
B3.1																
B3.2																
B4.1																
B4.2																

Notes:

1. The tender shall provide the **Services Accounting Code (SAC)** under which services fall under GST.

Contract-UG-L & E (PHASE-II) – Detailed Design, Detailed Engineering, Prototype, Manufacture, Supply, Delivery and Storage at Site, Installation, Testing And Commissioning (including integrated testing & commissioning), Training of Personnel, Demonstration of Performance of System/ Equipment & Annual Maintenance Contract of Lift & Escalator System (L & E) of Four Underground Stations of Kolkata Metro East-West Line Project (Phase-II)

The Tenderer is required to mention relevant CGST, SGST and IGST rates and value as per GST act & rules, considering of their applicability.

ITEMS OF WORKS IN			TAXES, CESS, ETC.								TOTAL AMOUNT OF ALL TAXES / LEVIES / CESS
	SAC	CODE UNDER GST	INSURANCE		CENTRAL GOODS & SERVICE TAX (CGST)		STATE GOODS & SERVICE TAX (SGST)		ANY OTHER TAX/LEVY /CESS		(5)=sum of (1) to (4)
			(1)		(2)		(3)		(4)		
		Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount	Rate (%)	Amount		
D1											

SIGNATURE OF TENDERER

APPENDIX G (UNDER SCHEDULE-X)

1.0 Spare Provision

1.1 General

The Contractor shall supply the following spares:-

1.1.1 Consumable Spares

- i) The 'consumable spares' shall include items such as lubricants, oils, greases, sealants, filter Medias, gaskets, lamps and wearable parts etc. whose declared life is less than one year.
- ii) The Tenderer shall provide an unpriced list of 'consumable' spares in Appendix G1 as noted above for maintenance and repairs of equipment in technical package. Any consumable item if required but not included in the above recommended list by the tenderer will be deemed to have been included and shall be supplied as per the provisions of this contract without any extra financial implication to the Employer. Contractor will be required to supply the requisite quantity of spares, as required irrespective of the quantities indicated by the contractor in the recommended list. Employer's decision in determining any particular item(s) as consumable in line with above guideline will be final and binding. In case any changes are required in the supply of consumables on account of changes at design stage, the contractor shall have to supply the required consumables also.
- iii) List of consumable spares furnished in the technical package shall be updated during the execution of Contract and following information as minimum shall be provided.
 - (a) Names, addresses, telephone numbers and other particulars of manufacturers and their local representatives;
 - (b) Procuring Specification
 - (c) Full description of spares including a note whether it is sealed unit or an assembly or sub-assembly which can be broken down into component parts;
 - (d) Quantity installed in the system;
 - (e) Expected consumption rates;
 - (f) Overall dimensions and weight including minimum packing (if any) for shelf space purposes;
 - (g) Inter-changeability or otherwise with similar parts;
 - (h) Normal manufacturing and shipment lead times; and
 - (i) Shelf life.
- iv) The consumable spares shall be stored at the location agreed to by the Engineer.
- v) It shall be the responsibility of the contractor to maintain sufficient stock of consumable spares till the end of AMC. These spares will be utilized by the Contractor during the maintenance etc. and its consumption to be

countersigned with Operation & Maintenance of Employer and the old replaced parts shall be destroyed in the presence of Employer's representative. Unused spares, if any, by the end of AMC shall be handed over to Employer and it will become property of employer.

- vi) Recommended list shall be furnished by the contractor as part of design submission / vendor approval for respective systems and subsystems. (The price of these spares will be part of tender evaluation while assessing the L-1 bidders).

1.1.2 **Unit Exchange Spares**

The Contractor shall supply the Unit Exchange Spares as listed in the Appendix G2 in Volume 6 of pricing document. The Unit Exchange Spares shall be supplied in the Store nominated by the Engineer. These shall be purchased as and when required by the Employer & to be delivered as per the agreed date. This will be part of tender evaluation while assessing the L-1 bidder. The Employer may decide not to purchase any or quantity during later stage.

1.1.3 **Mandatory spares**

- i) The Contractor shall supply the Mandatory Spares as listed in the Appendix-G3 of this Volume 6 pricing document. The Spares shall be supplied at the location nominated by the Engineer. The price of these spares shall be quoted at actual and will also be part of the evaluation for assessing L-1 bidder.
- ii) No change in quoted price of any spare will be allowed even when there is change in design of any equipment/sub-system during the execution of the contract.
- iii) Contractor will furnish complete details during contract execution (detailed design stage) as noted below for the listed spares;
 - (a) Names, addresses, telephone numbers and other particulars of manufacturers and their local representatives;
 - (b) Procuring Specification
 - (c) Full description of spares including a note whether it is sealed unit or an assembly or sub-assembly, which can be broken down into component parts;
 - (d) Quantity installed in the system;
 - (e) Overall dimensions and weight including minimum packing (if any) for shelf space purposes;
 - (f) Designed and shelf life;
 - (g) Interchangeability or otherwise with similar parts;
 - (h) Normal manufacturing and shipment lead times;
 - (i) Purchase Technical Specification with relevant drawings.

The information as above shall also be given for all other components/equipments etc. which may have to be changed / replaced during maintenance as decided by the Engineer based on the proposed maintenance practices.

1.1.4 Commissioning and DLP Spares

- i) The list provided in Appendix G4 is indicative & not exhaustive (for guidance purpose only). Any additional spares if required may be indicated by the firm in their technical offer. However nothing extra will be paid for any additional spares indicated by the firm.
- ii) The cost of items listed for maintenance during DLP has to be included in the quoted prices. Nothing extra will be payable for such spare parts.
- iii) If any additional items apart from the ones mentioned above are required during the DLP period, the same will be arranged by the contractor without any extra payments.
- iv) The Contractor shall submit to the Engineer for review a list of minimum spare parts that he intends to make available during the installation, erection, and commissioning and defect liability periods.
- v) The Contractor shall keep on Site, at his own cost, throughout the installation, erection, commissioning and defect liability periods, stocks of spare parts, as per the list given to enable rapid replacement of any item found to be defective or in any way in non-conformance with the Specification.
- vi) The Contractor shall generally not be entitled to use any of the Employer's spare parts during the installation, erection and commissioning periods or during the Defects Liability Period.
- vii) Contractor shall not be permitted to remove any working/healthy equipment / components / sub-systems / systems for any reason whatsoever without specific approval in writing from Employer's authorised representative.
- viii) Spares as per the agreed list shall be supplied at least three months before Revenue Operation Date. Stocks of such spares as available in Contractor stores will be jointly checked with Engineer every three months. Certificate by Engineer confirming availability of the spares in contractor stores / in Depots as per agreed list will be a pre-requisite for release of interim payment of the Contractor. However, this condition will not be applicable for three months before the expected expiry of the DLP period.

1.1.5 Recommended Spares & Consumables for ten years After DLP

- i) The Tenderer shall furnish priced list of the 'recommended spares' not covered under 'Unit Exchange Spares', 'consumables' and 'mandatory' spares but the Contractor expects them to be required during ten years after expiry of defect liability period, along with the bid as per format enclosed in Appendix – G5 of this Chapter. The prices should be proportionate and reasonable. Employer may decide to procure any number of these spares at quoted / negotiated rates, on the basis of requirement and the same shall be communicated to contractor, before the end of DLP. The Spares shall be supplied at a location nominated by the Engineer.
- ii) Contractor shall supply all the spares recommended by equipment/sub-system manufacturers within the quoted cost for recommended spares. Contractor

shall update list of spares recommended by equipment/sub-system manufacturers at design submission stage.

- iii) This will not be part of tender evaluation while assessing the L-1 bidder.

1.1.6 Special Tools & Maintenance Tools

- i) The Tenderer shall furnish priced list of the 'special tools & maintenance tools. Contractor expects them to be required during ten years after expiry of defect liability period, along with the bid as per format enclosed in Appendix – G6 of this Chapter. The prices should be proportionate and reasonable. Employer may decide to procure any number of these tools at quoted / negotiated rates, on the basis of requirement and the same shall be communicated to contractor, before the end of DLP. The Spares shall be supplied at a location nominated by the Engineer.
- ii) Contractor shall supply all the special tools recommended by tools manufacturers within the quoted cost. Contractor shall update list of special tools recommended by tools manufacturers at design submission stage.
- iii) This will not be part of tender evaluation while assessing the L-1 bidder.

1.1.7 Intermediate Overhauling Spares

- i) The Tenderer shall furnish priced list of the 'Intermediate Overhauling Spares. Contractor expects them to be required during ten years after expiry of defect liability period, along with the bid as per format enclosed in Appendix – G7 of this Chapter. The prices should be proportionate and reasonable. Employer may decide to procure any number of these tools at quoted / negotiated rates, on the basis of requirement and the same shall be communicated to contractor, before the end of DLP. The Spares shall be supplied at a location nominated by the Engineer.
- ii) Contractor shall supply all the Intermediate Overhauling Spares within the quoted cost.
- iii) This will not be part of tender evaluation while assessing the L-1 bidder.

1.2 Manufacture, Delivery and Warranty

- i) The major spare parts ordered under the Contract shall be manufactured, tested and inspected in accordance with the relevant quality system, suitably packed and labelled. All spares shall be subject to inspection by the Engineer. In the event that any item is known to be going out of production, then the Contractor shall give advance notice to the Engineer.
- ii) The warranty period of 'unit exchange' and 'mandatory spares', delivered shall be
24 months from the date of acceptance.

1.3 The relevant list of the spares mentioned above shall be submitted in the technical bids after blanking the prices, where applicable. The financial bid shall have the price details.

1.4 **Contractor shall submit technical specifications of the items used in this project for the purpose of purchasing. Engineer's views, if any, shall be suitably incorporated.**

Appendix-G1

Consumable Spares

Sr.No.	Description	Unit	Quantity	Unit Cost		Total Cost	
				F.C	L.C (INR)	F.C	L.C (INR)
A	LIFTS						
B	ESCALATORS						
TOTAL AMOUNT FOR CONSUMABLE SPARES G1							

Notes:

1. It is certified that Pricing Document 'Appendix G1' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G1' annexed in the Financial Package.

SIGNATURE OF TENDERER

Appendix -G2

Unit Exchange Spares

S.No.	Item	Stations	Unit	Quantity	Unit Price		Total Amount	
					F.C	L.C (INR)	F.C	L.C (INR)
A	LIFTS							
1	Complete Motor Assembly (Each Type)	All Stations of Phase 2	Set	1				
2	Door Assembly (Each Type)		Set	1				
3	MAP		Set	2				
4	SEP		Set	2				
5	Guide Rail (Set)		Set	2				
B	ESCALATORS							
1	Complete Motor Gear Assembly (Each Type)	All Stations of Phase 2	Set	1				
2	Complete Chain Drive Assembly (Each Type)		Set	1				
3	Complete Escalator Control Panel(Each Type)		Set	1				
4	Handrail Belt		Set	1				
5	Steps		Nos	5				
TOTAL AMOUNT FOR UNIT EXCHANGE SPARES G2								

Notes:

- It is certified that Pricing Document 'Appendix G2' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G2' annexed in the Financial Package.

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Appendix -G3

Mandatory Spares

S.No.	Item	Unit	Quantity	Unit Cost		Total Cost	
				F.C	L.C (INR)	F.C	L.C (INR)
A	LIFTS						
1	Door Belt	Set	1				
2	Door Contact Switch	Set	1				
3	Track Roller for Car & Landing (Close End)	Set	1				
4	Track Roller for Car & Landing (Open End)	Set	1				
5	Door Glide Shoe	Set	4				
6	Photocell	Set	1				
7	COL 3D	Set	1				
8	Rope for closing weight assembly	Set	1				
9	Rope for synchronization - Car	Set	1				
10	Rope for synchronization – L/D	Set	1				
11	Anti-Lift Roller	Set	1				
12	All buttons inside the COP and Outside the landing doors	Set	1 each of all types				
13	Drive Unit	Set	1				
14	Fan & Stop PCB Assembly	Set	1				
15	All control panel fuse, board, PCB etc.	Set	1				
16	Safety Gear Switch	Set	1				
17	Final Limit Switch	Set	1				
18	All other switches applicable for Car & Landing Doors	Set	1 each of all types				
19	Roller Guide Shoe Set for Car & CWT	Set	1				
20	ELCB as per the specification	Set	1				

S.No.	Item	Unit	Quantity	Unit Cost		Total Cost	
				F.C	L.C (INR)	F.C	L.C (INR)
21	MCB as per the specification	Set	1				
22	Car Light	Set	1				
B	ESCALATORS						
1	Photocell Sensor with Transmitter	Set	5				
2	Handrail Antistatic brush or roller	Set	35				
3	Pallet Antistatic Brush	Set	35				
4	Pit Lamp	Set	5				
5	Emergency Stop Switch	Set	5				
6	Service Brake Coil Assembly	Set	1				
7	Handrail Shaft	Set	1				
8	Handrail Shaft bearing	Set	5				
9	Main shaft	Set	1				
10	Main shaft bearing	Set	5				
11	Control panel exhaust fan	Set	3				
12	Control panel filter	Set	150				
13	Breaking Control Unit of each rating	Set	1				
14	V3F drive of each type rating	Set	1				
15	Escalator control panel lock assembly(window, main lock, inside door lock)	Set	3				
16	Keys(One for each escalator)	Set	1				
17	Contact of each type and each rating	Set	1				
18	Relay of each type and rating	Set	1				
19	Float Switch(Water Level Sensor)	Set	1				
20	All safety switch of each type	Set	1				
21	All sensor of each type	Set	1				

S.No.	Item	Unit	Quantity	Unit Cost		Total Cost	
				F.C	L.C (INR)	F.C	L.C (INR)
22	Relay of each type	Set	1				
23	Mother board or equivalent PLC with all attached PCB Cards	Set	1				
24	Combs of all types	Set	150				
25	Speed Selector Switch	Set	1				
26	Transformer	Set	1				
27	PLC Communication Port	Set	4				
28	Digital Display	Set	2				
29	Skirt Brush	Set	5				
30	Skirt brush bracket	Set	4				
31	Step Roller	Set	8				
32	Chain Roller	Set	8				
33	Relieving Curve	Set	1				
34	Pallet Axle	Set	7				
35	Pallet Bride	Set	15				
36	Oil Lubrication Pump	Set	1				
37	Oil Lubrication Pipe	Set	8				
38	Comb Light	Set	8				
39	Handrail inlet(entry boot)	Set	3				
40	MCCB of each type rating	Set	1				
41	Floor Plate support	Set	3				
42	Direction Indicator	Set	3				
43	Key Switch	Set	7				
44	Pallets	Set	15				
45	Handrail reversing wheel	Set	1				

Contract-UG-L & E (PHASE-II) – Detailed Design, Detailed Engineering, Prototype, Manufacture, Supply, Delivery and Storage at Site, Installation, Testing And Commissioning (including integrated testing & commissioning), Training of Personnel, Demonstration of Performance of System/ Equipment & Annual Maintenance Contract of Lift & Escalator System (L & E) of Four Underground Stations of Kolkata Metro East-West Line Project (Phase-II)

S.No.	Item	Unit	Quantity	Unit Cost		Total Cost	
				F.C	L.C (INR)	F.C	L.C (INR)
46	Friction wheel	Set	1				
47	Handrail support roller	Set	7				
48	Handrail guiding roller	Set	7				
49	Motor of each rating	Set	1				
50	Brake resistance of each type rating	Set	1				
51	Handrail Chain	Set	1				
52	Drive Chain	Set	1				
53	Broken Chain Assembly	Set	2				
54	Pit Emergency Stop	Set	1				
55	Step Guide Pad	Set	15				
56	Comb Screw	Set	35				
TOTAL AMOUNT FOR MANDATORY SPARES G3							

Notes:

1. It is certified that Pricing Document 'Appendix G3' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G3' annexed in the Financial Package.

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Appendix- G4

Commissioning and DLP Spares:

Spares required for 2 Years of DLP			
Sr. No.	Description	Unit	Quantity
	LIFT SYSTEM		
1	All electrical safety switches, All major PCB's, Photocell, 3D Col etc.		
2	Car LED lights, fan, rope for door, door gliding shoe, Car rope, Governor Rope etc.		
3	All type of lift buttons, displays, gongs, hooter, special connectors etc.		
	ESCALATOR SYSTEM		
1	Contactor of each type and each rating, Relay of each type and rating, All Safety Switch, Sensors etc.		
2	Comb Plate and Comb Screws, Comb Light, Key Switch etc.		
3	Direction Indicators, Speed Selector Switch, Digital Display etc.		
4	All major PCB etc.		

Notes:

1. The above list is indicative & not exhaustive (for guidance purpose only). Any additional spares if required may be indicated by the firm in their technical offer. However nothing extra will be paid for any additional spares indicated by the firm.
2. The cost of items listed above, for maintenance during DLP has to be included in the quoted prices. Nothing extra will be payable for such spare parts.
3. If any additional items apart from the ones mentioned above are required during the DLP period, the same will be arranged by the contractor without any extra payments.

4. Contractor has to ensure the availability of above spares along with required skilled personnel, Testing Equipment, Material Handling equipment, Fixture & ladders etc. in desired location at specified intervals as approved by the Employer, during DLP to ensure that maintenance of equipment is not affected.
5. The contractor has to take the written permission for using the DLP spares from Employer otherwise it will be assumed that the contractor has not used DLP spares. The balance DLP spares (balance after actual consumption), shall be the property of the employer and liable to return these spares after completion of DLP. If any additional spares are required, the contractor shall arrange the same without any extra payment.

Appendix- G5

Recommended Spares and Consumables for Lifts and Escalators for a period of ten years after DLP:

Sr. No.	Description	Unit*	Qty	Unit Cost		Total Cost		% Increase / Decrease (see Note below)
				F.C	L.C (INR)	F.C	L.C (INR)	
A	LIFT System							
B	ESCALATOR SYSTEM							
Total of G5								

Notes:

1. It is certified that Pricing Document 'Appendix G5' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G5' annexed in the Financial Package.
2. The Tenderer shall furnish priced list of the 'recommended spares' not covered under 'Unit Exchange Spares', 'consumables' and 'mandatory' spares but the Contractor expects them to be required after expiry of DLP period of up to ten years, along with the bid as per format enclosed in Appendix G5. Employer may decide to procure any number of these spares at quoted rates. The Spares shall be supplied at a location nominated by the Engineer.
3. Contractor shall indicate the annual percentage that shall be applicable for increase or decrease of the unit cost of each item/spare listed in Pricing Document Appendix G5 for procurement by Employer for a period of up to ten years after the DLP.

SIGNATURE OF TENDERER

Appendix- G6

Special Tools & Maintenance Tools including Jig, Fixtures, Gauges, Testing and Diagnostic Equipment (Covering the requirement up to completion of AMC period):-

Sr.	Description	Unit*	Qty	Unit Cost		Total Cost		% Increase / Decrease (see Note below)
				F.C	L.C (I N R)	F.C	L.C (INR)	
Total of G5								

Notes:

- Contractor shall indicate the annual percentage that shall be applicable for increase or decrease of the unit cost of each item/spare listed in Pricing Document Appendix G6 for procurement by Employer for a period of up to ten years after the date of completion of DLP
- It is certified that Pricing Document 'Appendix G6' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G6' annexed in the Financial Package.

SIGNATURE OF TENDERER

Appendix- G7

Intermediate Overhauling Spares for Lifts & Escalator System to cover upto completion of AMC:-

Sr. No.	Description	Unit*	Qty	Unit Cost		Total Cost		% Increase / Decrease (see Note below)
				F.C	L.C (INR)	F.C	L.C (INR)	
Total of G6								

Notes:

- Contractor shall indicate the annual percentage that shall be applicable for increase or decrease of the unit cost of each item/spare listed in Pricing Document Appendix G7 for procurement by Employer for a period of up to ten years after the date of Completion of DLP.
- It is certified that Pricing Document 'Appendix G7' annexed in Technical Package is a "TRUE COPY" (with prices left blank) of the said Pricing Document 'Appendix G7' annexed in the Financial Package.

SIGNATURE OF TENDERER

APPENDIX- D1

COMPREHENSIVE ALL-INCLUSIVE ANNUAL MAINTENANCE CONTRACT (AMC) FOR A PERIOD OF TEN YEARS AFTER DLP

Sl. No.	Description of Work	Unit	Qty	Unit Rate per year (INR)										Total for 10 (Ten) Year (INR)
				1 st Y	2 nd Y	3 rd Y	4 th Y	5 th Y	6 th Y	7 th Y	8 th Y	9 th Y	10 th Y	
D1	Comprehensive All-inclusive Maintenance Contract (AMC) of all L&E Equipment installed in Four Underground Stations of Kolkata East-West Metro Corridor (Phase-II) for 10 (ten) years after DLP													
D1.1 Comprehensive All-inclusive Maintenance Contract (AMC) of all Lifts installed in Four Underground Stations of Kolkata East-West Metro Corridor (Phase-II) for 10 (ten) years after DLP														
D1.1-1	Comprehensive All-inclusive Maintenance Contract (AMC) for 18 m rise (17.5> h ≥ 18.5), for ten years after completion of DLP for 13 Passenger Glass Lift	No.	4											
D1.1-2	Comprehensive All-inclusive Maintenance Contract (AMC) for 18 m rise (17.5> h ≥ 18.5), for ten years after completion of DLP for 26 Passenger Glass Lift	No.	1											
D1.1-3	Comprehensive All-inclusive Maintenance Contract (AMC) for 19 m rise (18.5> h ≥ 19.5), for ten years after completion of DLP for 13 Passenger Glass Lift	No.	4											
D1.1-4	Comprehensive All-inclusive Maintenance Contract (AMC) for 19 m rise (18.5> h ≥ 19.5), for ten years after completion of DLP for 21 Passenger Glass Lift	No.	2											
D1.1-5	Comprehensive All-inclusive Maintenance Contract (AMC) for 10 m rise (9.5> h ≥ 10.5), for ten years after completion of DLP for 26 Passenger SS Lift	No.	3											
D1.1-6	Comprehensive All-inclusive Maintenance Contract (AMC) for 6 m rise (5.5> h ≥ 6.5), for ten years after completion of DLP for 13 Passenger Glass Lift	No.	1											
D1.1-7	Comprehensive All-inclusive Maintenance Contract (AMC) for 9 m rise (8.5> h ≥ 9.5), for ten years after completion of DLP for 13	No.	1											

Contract-UG-L & E (PHASE-II) – Detailed Design, Detailed Engineering, Prototype, Manufacture, Supply, Delivery and Storage at Site, Installation, Testing And Commissioning (including integrated testing & commissioning), Training of Personnel, Demonstration of Performance of System/ Equipment & Annual Maintenance Contract of Lift & Escalator System (L & E) of Four Underground Stations of Kolkata Metro East-West Line Project (Phase-II)

Sl. No.	Description of Work	Unit	Qty	Unit Rate per year (INR)										Total for 10 (Ten) Year (INR)
				1 st Y	2 nd Y	3 rd Y	4 th Y	5 th Y	6 th Y	7 th Y	8 th Y	9 th Y	10 th Y	
D1	Comprehensive All-inclusive Maintenance Contract (AMC) of all L&E Equipment installed in Four Underground Stations of Kolkata East-West Metro Corridor (Phase-II) for 10 (ten) years after DLP													
	Passenger SS Lift													
D1.1-8	Comprehensive All-inclusive Maintenance Contract (AMC) for 7 m rise (6.5> h ≥ 7.5), for ten years after completion of DLP for 21 Passenger SS Lift	No.	2											
D1.1.9	Comprehensive All-inclusive Maintenance Contract (AMC) for 12m rise (11.5> h ≥ 12.5), for ten years after completion of DLP for 26 Passenger Glass Lift	No.	1											
D1.2 Comprehensive All-inclusive Maintenance Contract (AMC) of all Escalators installed in Four Underground Stations of Kolkata East-West Metro Corridor (Phase-II) for 10 (ten) years after DLP														
D1.2-1	Comprehensive All-inclusive Maintenance Contract (AMC) for Glass Escalators of 6 m rise (5.5> h ≥ 6.5), for ten years after completion of DLP	No.	22											
D1.2-2	Comprehensive All-inclusive Maintenance Contract (AMC) for SS Escalators of 7 m rise (6.5> h ≥ 7.5), for ten years after completion of DLP	No.	4											
D1.2-3	Comprehensive All-inclusive Maintenance Contract (AMC) for SS Escalators of 9 m rise (8.5> h ≥ 9.5), for ten years after completion of DLP	No.	1											
D1.2-4	Comprehensive All-inclusive Maintenance Contract (AMC) for SS Escalators of 10 m rise (9.5> h ≥ 10.5), for ten years after completion of DLP	No.	16											
D1.2-5	Comprehensive All-inclusive Maintenance Contract (AMC) for Glass Escalators of 13 m rise (12.5> h ≥ 13.5), for ten years after completion of DLP	No.	16											
	Total Value of Appendix-D1 (In Figure) (D1.1-1+D1.1-													

Sl. No.	Description of Work	Unit	Qty	Unit Rate per year (INR)										Total for 10 (Ten) Year (INR)
				1 st Y	2 nd Y	3 rd Y	4 th Y	5 th Y	6 th Y	7 th Y	8 th Y	9 th Y	10 th Y	
D1	Comprehensive All-inclusive Maintenance Contract (AMC) of all L&E Equipment installed in Four Underground Stations of Kolkata East-West Metro Corridor (Phase-II) for 10 (ten) years after DLP													
	2+D1.1-3+D1.1-4+D1.1-5+D1.1-6+D1.1-7+D1.1-8+D1.1-9+D1.2-1+D1.2-2+D1.2-3+D1.2-4+D1.2-5)													
	Total Value of Appendix-D1 (In words) : In Rupees													

Notes:

1. All responsibility of maintaining equipment/system is that of contractor including manpower deployment as per Annexure D1.
2. The contractor shall deposit all the spares to KMRCL, which will be issued as and when required.
3. The attached list of Spares, Consumable is based on experience of KMRCL, this list need to be updated as per the actual selection of the equipment/ System. This will be responsibility of the contractor to ensure that all the required spares, consumables are available every time. No financial implication in this regard shall be acceptable.
4. The Price Quoted for AMC is Part of Evaluation; KMRCL reserves the right to award through a supplementary agreement.
5. Quarterly (every three months) payment @ 25% (twenty five percent) of the unit rate for the respective years of AMC in D1.1-1, D1.1-2, D1.1-3, D1.1-4, D1.1-5, D1.1-6 & D1.2-1, D1.2-2, D1.2-3, D1.2-4, D1.2-5, D1.2-6, D1.2-7, D1.2-8) shall be made only after successful completion of all obligations under AMC during each period under consideration and on certification by the Engineer /representative of the Employer, certifying satisfactory maintenance of the L&E System as per specification and schedules of maintenance, as approved.

Appendix-D1.1

Brief Scope of Work FOR AMC Works

System L&E system and all related works pertaining to the contract scope of work

Duration 10 Years after DLP.

Location As per the scope of the contract

S. No.	Description
1	Providing routine maintenance & breakdown services, to attend complaints as and when they occur in the system and annual maintenance comprehensive but not limited to.
a	To carry out Preventive maintenance as per schedule.
b	Providing all man power, labour, tools and tackles and replacement of defective spare parts including consumables.
c	The rates quoted for the AMC services shall also include all taxes (Including service tax) and duties as applicable and cost of transportation of freight, insurances etc...
d	To maintain proper inventory of spares & consumables at site.
e	To maintain record of defects attended with the consumption of spares & consumables.
f	To carry out Annual Overhauling of Lifts and Escalators.
2	The scope of work does not include: Deterioration of parts due to general wear & tear. Replacement of any equipment or its body as a whole.

Appendix – D1.2

Services by KMRCL during AMC

S. No.	Description
1	Arranging & providing work permits, power blocks etc... if any needed for restricted zones.
2	Provision of Photo Gate Passes to Contractor's staff.
3	Any type of work pertaining to civil, carpentry, painting, false ceiling, housekeeping, safety, watch & ward, insurance etc...
4	Provision of system access for components located above false ceiling, in restricted area etc...
5	Provision of lockable space inside station for contractor's service staff & storage space for spares, consumables & equipment.
6	Any alteration, addition in the built up system.
7	Operation of the system by the qualified contractor's personnel under KMRCL control

Appendix – D1.3

Manpower Deployment (Minimum requirement without any extra financial implication)

S. No.	Description	Experience	Nos.	Unit Charges	Amount	Remarks
1	Lift Maintenance Engineer	10 Years (Min.)	1			
2	Escalator Maintenance Engineer	10 Years (Min.)	2			
3	Lift Maintenance Technicians	10 Years (Min.)	5			
4	Escalator Maintenance Technicians	10 Years (Min.)	5			
5	Lift Maintenance Helper	10 Years (Min.)	5			
6	Escalator Maintenance Helper	10 Years (Min.)	5			
7	Safety Steward	5 Years (Min.)	1			
				Total		

APPENDIX- D2

TRAINING, TRAINING MANUAL OF OPERATIONS AND MAINTENANCE OF THE EMPLOYER'S PERSONNEL

Sl. No.	Description of Work	Unit	Qty	Rate in INR
D2	Training of the Employer's operation and maintenance personnel, Training manual for L&E systems for Four underground Stations of Kolkata East West Metro Corridor (Phase-II)			
D2.1	Training of the Employer's operation and maintenance personnel, Training manual for Lifts works.	Lot	1	
D2.2	Training of the Employer's operation and maintenance personnel, Training manual for Escalator works.	Lot	1	
	Total Value of Appendix-D2 (In Figure) (D2.1 + D2.2)			
	Total Value of Appendix-D2 (In words) : In Rupees			

APPENDIX- D3

PREPARATION AND SUBMISSION OF OPERATION AND MAINTENANCE MANUALS

Sl. No.	Description of Work	Unit	Qty	Rate in INR
D3	Preparation and Submission of Operation and Maintenance Manuals for L&E systems for Four underground Stations of Kolkata East West Metro Corridor (Phase-II)			
D3.1	Operating Manual for Lift System (Original plus three (3) copies in the required format	Lot	1	
D3.2	Maintenance Manual for Lift System (Original plus three (3) copies in the required format)	Lot	1	
D3.3	Operating Manual for Escalator System (Original plus three (3) copies in the required format	Lot	1	
D3.4	Maintenance Manual for Escalator System (Original plus three (3) copies in the required format	Lot	1	
	Value of Appendix-D3 (In Figure) (D3.1 + D3.2 + D3.3 + D3.4)			
	Value of Appendix-D3 (In words) : In Rupees			

APPENDIX E

PAYMENT SCHEDULE

	Description	Schedule-X (Appendix-A) Excepting spares (in Appendix-G1 to G6)	Schedule-Y (Appendix-B)
A	Mobilization Payment (Non-Recoverable)	10 % (ten percent) of Schedule-X	-
B	Interim payment on obtaining "Notice of No Objection" from the Engineer/Employer on finalization of Detail design & working drawing of L&E System for the entire scope of work	5% (Five percent) value of total of Schedule-X as would be signed and certified in respective Interim Payment Certificates	-
C	Interim payment on account of delivery and inspection of material at site also obtaining "Notice of No Objection" from the Engineer/Employer of material/equipment at site	70% (Seventy percent) value of the material/equipment in Schedule-X as would be supplied/measured and certified in respective Interim Payment Certificates	-
D	Interim payment on account of completion of installation and obtaining "Notice of No Objection" from the Engineer/Employer for the installation completion.	-	75 % (Seventy five percent) value of the items of works executed in Schedule-Y as would be installed and certified in respective Interim Payment Certificates
E	Interim payment on account of completion of pre-commissioning testing, Commissioning, Integrated testing, Operational Acceptance testing and Demonstration of the performance of the system and Equipment and obtaining "Notice of No Objection" from the Engineer/Employer for completion of above works.	15% (fifteen percent) value of the items of works executed in Schedule-X as would be certified in respective Interim Payment Certificates	25% (twenty five percent) value of the items of works executed in Schedule-Y as would be measured and certified in respective Interim Payment Certificates

Notes:

- Retention Money in accordance with GCC Clause 11.6 will be retained from each on account payment (except A) due to the contractor. The full amount of the Retention Money shall become due to the contractor on the date of issue of Taking over certificate.
- Payment against Spares (Appendix G1 to G7 except Appendix G4) supplied shall be paid at Actual and as delivered.
- Payment against Appendix D2 & D3 shall be paid at actual when completed.
- Payment of AMC charges (Appendix D1) will be made as per **Note 5** in Appendix D1.

APPENDIX F

PAYMENT SCHEDULE (PS)

SHOWING MONTHLY CASH FLOWS FOR THE CONTRACT

This document to be prepared and completed as required by the Tenderer and submitted as part of Appendix -2 to the Form of Tender.

1. The amounts of Payment Schedules shall be included in the Monthly Cash Flows for respective Schedule X and Schedule Y.
2. Set out the maximum cumulative amount for each currency for all Payment Schedules in accordance with Clause 11 of the GCC.
3. The MPS shall cover the period commencing from the first day of the next calendar month from the NTP up to one calendar month after the last Key Date achieved. The first interim payment application may be submitted on the first day of the next calendar month from the NTP, such first application shall be treated as the month one of the MPS.

SIGNATURE OF TENDERER

APPENDIX H

LIST OF SPARES: CONFIRMATION STATEMENT

1. We hereby confirm that we shall submit a schedule of spare parts duly indicating, for each item of spares, its description and number of units required for the system during the expected life and during the first ten years, principal source of supply, part number, drawing number, lead time, shelf life and the secondary source of supply within 30 weeks of Commencement date and the submission of these details shall be considered as a pre-requisite for accomplishment of Key Date as described in the relevant clause of the Employer's Requirement-Technical Specifications.

SIGNATURE OF TENDERER

APPENDIX I

PRICING OF UNQUALIFIED WITHDRAWAL

PRICING OF UNQUALIFIED WITHDRAWAL OF CONDITIONS, QUALIFICATIONS, DEVIATIONS, ETC... SUBMITTED WITH FORM OF TENDER: APPENDIX -11

Sr.No.	Details of Condition, Qualification, Deviation, etc...	Key Date affected by each condition, qualification, deviation, etc...	Prices For Unqualified Withdrawal (Refer to Note 3)			
			Increase or Decrease for unqualified withdrawal of each condition, qualification, deviation, etc...			
			Foreign Currency A	Foreign Currency B	Foreign Currency C	Indian Rupees
1						
2						
3						
4						
.						
.						
.						
.						

Notes:

1. The Serial Number (Sr.No.) and detail of Condition, Qualification, Deviation, etc..., of this Appendix I is to be cross referenced to the (Sr.No.) that is provided for in FOT: Appendix FOT-11.
2. The Tenderer must indicate the Key Dates and Prices for unqualified withdrawal, which will be affected by each remark, comment, condition, qualification or deviation, etc... that has been specified in Appendix FOT-11.
3. In case the Price for unqualified withdrawal of any remark, comment, condition, qualification or deviation, etc... is not priced in this Appendix I it shall be considered that the remark, comment, condition, qualification or deviation is unconditionally withdrawn without any financial implication as indicated in FOT: Appendix FOT-11.
4. It is certified that 'Appendix I' annexed in Technical Package is a "TRUE COPY" (with prices masked) of said 'Appendix I' in the Financial Package. In the TRUE COPY to be submitted in the Technical Package, the Tenderer shall clearly indicate "Priced" or "Not Priced" while masking the prices.

SIGNATURE OF TENDERER