

KOLKATA METRO RAIL Corporation Limited

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PRE-QUALIFICATION TENDER NOTIFICATION

INVITATION TO APPLICANTS

KMRCL/ TENDER NO.5 - PQ-UG/EL – L & E (Revision 1)

Date: 26th August 2011

- 1 Kolkata Metro Rail Corporation Limited (KMRCL) intends to shortlist Lift and Escalator (L & E) Equipment & System Design / Manufacturing Companies, through a pre-Qualification process, for the Detailed Design, Detailed Engineering, Manufacture, Supply, Delivery and Storage at site, Laying, Installation, Testing, Commissioning and Demonstration of the performance of the system and equipment and Training of Personnel as detailed under the scope of work of this tender document for Underground and Elevated System of Kolkata Metro East-West Rail Project. Joint Venture, Consortium and Sole Bidder (Indian and International companies) complying with the requirements of the Document can apply. The KOLKATA Metro Rail Corporation Limited's (KMRCL) East-West Line system is on 750 volts DC third rail over a length of 14.7 Km (Approx). It is partly Elevated (5.77 K.M) and partly Underground (8.9 K.M.) construction. General Consultants (GC) are appointed by KMRCL who will work as Engineers for this project and assist KMRCL in evaluating the tenders.

The project is financed partly through equity participation by GOI and GOWB and partly through ODA Loan from Japan International Cooperation Agency, hereinafter referred to as the JICA, in the amount of **INR 29,839 Million** equivalent in Yen toward the part cost of East West Metro Corridor, Kolkata, the date of signing the Loan Agreement is 10/03/2008 & 31/03/2010, and intends to apply a portion of the proceeds of this loan to payments under some of the contract<s>. However this tender Invitation for Prequalification issued, is outside the purview of disbursement of the ODA Loan by JICA.

- 1.1 Indian and International companies, either by themselves or as a joint venture/consortium, interested in appointment through International Competitive Bidding (ICB) as the Detailed Design and Build contractor of Tender No. 5, UG/EL – L & E may complete the Pre-Qualification Enquiry Document in pro-forma format. Applicants are required to have a good financial standing and performance record, requisite experience and capacity in the fields described above.
- 1.2 Copies of the Enquiry Document may be collected from the office of the KMRCL, 4th & 5th

Floor, HRBC Bhaban, Munshi Premchand Sarani, KOLKATA-700 021, INDIA. The Pre-Qualification Documents will be available on payment of a non-refundable fee of Rs 25,000 (US\$ 500) in the form of a crossed demand draft from a Scheduled Commercial Bank in India in favour of Kolkata Metro Rail Corporation Limited, payable at Kolkata, on all working days between **11.00hrs and 17.00hrs (IST)** from **4th July 2011** till **14th July 2011**. In case enquiry document is downloaded from web site, cost of the document will be submitted along with the submission of tender otherwise the tender will be rejected.

- 1.3 Clarifications, if any, asked in writing only will be entertained by KMRCL. Pre-bid meeting may be held on **05th August 2011 at 14.30 hrs**. Last date for seeking clarifications is **16th August 2011** and this will be replied by **26th August 2011**.
- 1.4 The documents, duly completed, shall be returned in sealed envelopes, which must be delivered by hand or by registered mail, so as to reach KMRCL office on or before **15.00 hrs (IST)** on **26th September 2011**. Late or delayed submittals will not be accepted. *The tender offers will be opened at 15.30 hrs (IST) on the same day in the presence of applicants who desire to be present.* Postal or courier delay is the sole responsibility of the Applicant.
- 1.5 KMRCL reserves the right to accept or reject any or all proposals without assigning any reason what so ever. No Bidder shall have any cause of action or claim against KMRCL for rejection of his proposal. Canvassing in any form will result in summary rejection of the tender.
- 1.6 Joint venture/ Consortium must comply with the following requirement :-
 - a) The lead partner shall meet not less than 40% of the financial standing and criteria, Each of the other partners shall meet individually not less than 25% of all financial criteria, However in totality JV/Consortium (all the partners) put together should meet 100% of financial standing criteria at all times.
 - b) Joint venture suitably, collectively must meet other criteria like technical organisational and manufacturer capability.
 - c) The formation of joint venture after pre qualification and any change in a pre qualified joint venture will be subject to the written approval of the employer prior to the deadline for submission of bid. Such approval may be denied if (i) partner withdraw from joint venture and the remaining partners do not meet the qualifying requirement (ii) new partner to a joint venture are not qualified, individually or as another joint venture, or (iii) in the opinion of the employer, a substantial reduction in competition may result.
 - d) Any bid shall be signed so as to legally bind all partners jointly and severally and any bid shall be submitted with a copy of joint venture agreement as in application Form **(2a)** and Form **(2b)** providing the joint and several liabilities with respect of the contract. For details please visit our web site: www.kmrc.in

Managing Director,



Kolkata Metro Rail Corporation Limited

**PRE-QUALIFICATION FOR THE DETAILED DESIGN, DETAIL
ENGINEERING, MANUFACTURE, SUPPLY, DELIVERY AND STORAGE
AT SITE, LAYING, INSTALLATION, TESTING AND COMMISSIONING,
TRAINING OF PERSONNEL, DEMONSTRATION OF PERFORMANCE OF
SYSTEM / EQUIPMENT OF LIFTS AND ESCALATORS SYSTEM (L & E)
OF UNDERGROUND AND ELEVATED SYSTEM OF
KOLKATA METRO EAST-WEST LINE PROJECT
(TENDER NO.5 PQ-UG/EL - L&E)
(Revision 1)**

PRE-QUALIFICATION ENQUIRY DOCUMENT

AUGUST 2011

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**PRE-QUALIFICATION FOR THE DETAILED DESIGN, DETAIL
ENGINEERING, MANUFACTURE, SUPPLY, DELIVERY AND STORAGE
AT SITE, LAYING, INSTALLATION, TESTING AND COMMISSIONING,
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2.0 INSTRUCTIONS TO APPLICANTS - SCOPE OF WORK

The KOLKATA Metro Rail Corporation Limited's (KMRCL) East-West Line system is on 750 volts DC third rail over a length of 14.7 Km (Approx). It is partly Elevated (5.77 K.M) and partly Underground (8.9 K.M.) construction-

The project is financed partly through equity participation by GOI and GOWB and partly through loan from Japan International Cooperation Agency (JICA). This work is funded by two Governments. The execution of this tender **does not** require JICA concurrence at any time.

The Kolkata Metro Railway will be carried out in two phases. Phase - I work will be between Subash Sarovar and Salt Lake Sector-V station. Phase - II work will be between Subash Sarovar and Howrah Maidan Station

KOLKATA Metro Rail Corporation Limited (KMRCL) intends to shortlist Design and Built JV / Consortium / Sole Bidders through a pre-qualification process for the Detailed Design, Detailed Engineering, Manufacture, supply, Delivery and Storage at Site, installation, testing, commissioning and Demonstration of the Performance of the System and Equipment of the following:

PHASE-I – Between Subash Sarovar and Salt Lake Sector-V station (Elevated Section)

Phase - I work will be between Subash Sarovar and Salt Lake Sector-V station and will include Six (6) Elevated Stations (Salt Lake Stadium, Bengal Chemical, City Centre, Central Park, Karunamoyee and Salt Lake Sector-V), 33 kV intake RSS substation at Bengal Chemical Building and Auxiliary substation at Central Park depot and the entire length of Via duct between Subash Sarovar and Salt Lake Sector-V.

PHASE-II– Between Subash Sarovar and Howrah Maidan station (Underground Section)

Phase - II work will be between Howrah Maidan and Subash Sarovar and will include Six (6) Underground Stations (Phool Bagan, Sealdah, Central, Mahakaran, Howrah and Howrah Maidan), Intermediate Ventilation Shafts including Fan rooms and Emergency Egress route and Auxiliary Substation at Scissor cross over between Sealdah- Phool Bagan; Intermediate Ventilation Shafts including Fan rooms and Emergency Egress route and Auxiliary Substation and Main Receiving Sub Station Intake Switch Room at Strand Road; Entire length of Tunnels from Howrah Maidan to Subash Sarovar.

2.1 Scope of Work – Guidelines

(The information given below is Guideline only for understanding the scope of work, the details of which shall be indicated in the Main Tender Document)

Detailed Design based on Preliminary Design provided by the Definitive Design Consultants of Underground stations UG-1 and UG-2 Contracts, Elevated Stations, which would be made available to the short listed Lift & Escalator System Contractors during Main Tender Stage as a part of tender document. The Detailed Scope of Work is as follows:

:

- Manufacture, Supply, Delivery to site, Storage at Site, Laying, Installation, Testing & Commissioning, Demonstration of Performance Guarantee of the equipment and System, Submission of O & M Manuals.
- Preparation of final detailed Construction drawings and layouts to achieve the desired performance characteristics, submit the same to GC and obtain Approval,
- Equipment and Installation shall comply with all relevant Codes, Standards and Regulations specified in the Tender document.
- Include all civil works associated with Lift & Escalator system works and making and painting the civil works thus carried out as required.
- Maintenance of the area during implementation stage.
- De-mobilisation, clearing of all temporary works and facilities after completion of job.
- Various interfacing works for other Contracts e.g. Signalling and Telecommunication, Traction Power & Power Distribution, Track work, Automatic Fare Collection, Platform Screen Doors (PSDs) / Platform Screen Gates (PSG) at Underground and Elevated stations respectively, Rolling Stock etc. shall be but not limited to as described below:
 - Earthing and bonding protection wherever required.
- Interface and coordination with UG-1 and UG-2 Contracts for Civil and Plumbing & Drainage works; Tunnel Ventilation System Contract; Environmental Control System Contract and E & M Contract (including Fire Protection System).
- Interface with all other Elevated Station Civil and Artificial finishes Contracts and Elevated E & M Contract (including Fire Protection System).
- Preparation of Operation and Maintenance Manual Training of maintenance / Operation personnel.

- Preparation of working drawings and “As Built” drawings
- Obtaining the clearance of Environmental Dept of Govt. of West Bengal and other statutory authorities as applicable.
- Obtaining the clearance certificate from Electrical Inspector and other relevant statutory authorities as applicable
- Obtaining the Fire clearance certificate from Fire authorities and other statutory authorities as applicable.
- Obtaining all licenses and clearances from local authorities for safe operation / passenger use of elevator and escalator systems
- Warranty Obligations during 2 years Defect Liability Period.
- 3 years Comprehensive Maintenance / Maintenance without spares coverage of the entire system under the Scope of this tender beyond Defects Liability period.
- **Scope of Work includes Contractor’s obligations for submission of list of spares (including pricing for these spares) that are likely to be consumed in 10 years time after 3 years Annual Maintenance Contract for Comprehensive maintenance / Maintenance without spares is complete (To be elaborated in the Main Tender Document).**
- Detail engineering, equipment sizing and selection based on Sustainable Design, Energy efficiency and obtaining highest level of LEED Accreditation. For Lifts, they shall be able to generate up to 25% of the energy through their Regenerative system and shall use LED Lights.
- **Providing all the required civil works details/inputs including foundations, inserts, openings and other structural works required for the erection of Equipment, system and sub-system to the Civil Contractor (UG-1 & UG2) in time for casting.**
- **Scope of Work includes Contractor’s obligations for submission of list of 2nd source or alternate source for Proprietary items (To be elaborated in the Main Tender Document).**
- **Scope of Work includes the work of Installation, Testing and Commissioning of remote control and Monitoring System that shall be provided by UG/EL-L&E Contractor for satisfactory working through Station Management System (To be provided by UG/ECS Contractor) (To be elaborated in the Main Tender Document).**
- **Scope of Work includes Contractor’s obligations for submission of Renewed ISO Certificates during the Contract period. (To be elaborated in the Main Tender Document).**
- **Unless otherwise stated herein, the design, installation, testing and commissioning of all works associated with Lifts and Escalator shall generally comply with the latest edition of all applicable standards issued by the Bureau of Indian Standards and other relevant local regulations applicable.**
 - IS – 14665: All parts (Latest Version).

- IS – 15330: Installation and Maintenance of lifts for Handicapped Persons – Code of Practice
 - IS – 7759: Specification for lift doors locking device and controls.
 - IS-1860 Code of practice for Installation, Operation and Maintenance of Electric passenger and goods lifts
 - EN81-1 Safety rules for the Construction and Installation of Lifts Part 1:Electric Lifts
 - EN13015 Maintenance for Lifts and Escalators - Rules for Maintenance Instructions
 - EN 81 : Safety Rules for the Construction and Installation of Electric and Hydraulic Lifts
 - NFPA 130 : Fixed Guideway Transit System
 - EN 115-1:2008, Safety of escalators and moving walks — Part 1: Construction and installation
 - EN 13015:2001, Maintenance for lifts and escalators — Rules for maintenance instructions
 - EN 60204-1:2006, Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC 60204-1:2005, modified)
 - EN ISO 12100-1:2003, Safety of machinery — Basic concepts, general principles for design — Part 1: Basic
 - terminology, methodology (ISO 12100-1:2003)
 - EN ISO 13850, Safety of machinery — Emergency stop — Principles for design (ISO 13850:2006)
 - EN ISO 13857:2008, Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2008)
 - BS 6399: Part 1: Design Loading for Buildings (Part 1 dead and imposed load)
 - BS 5950 : Specification for use of structural steel.
 - BS 6206 Impact Performance Requirements for Flat Safety Glass and Safety Plastics for Use in Buildings
 - BS 952 Glass for Glazing: Part 1: Classification
- Additional requirements imposed by statutory or government authorities not listed above shall be complied with.
- The Contractor shall also comply with the “Guidelines and space standard for Barrier free Built Environment for Disabled and Elderly Persons” published by C.P.W.D. (Central Public Works Department). India.
- **The contractor shall comply with the guidelines for safety of elevator circulated vide A. V. series circular no. 822, issued by Ministry of Urban Development and Poverty Alleviation, Govt. of India vide their letter no. C-31011/1/2001-AVII dated**

7.12.2001.

- The contractor shall make available at site all relevant Indian standard Codes of practice, CPWD and MOST Specifications and IRS & IRC Codes as applicable and other relevant British/German/American Standard. Wherever Indian Standards do not cover some particular aspects of design/construction, relevant British/German/American Standards will be referred to.
 - In case of discrepancy among Standard Codes of Practice viz. IS, IRS, CPWD, IRC, IEC, BS, UL, DIN, MOST, the decision of Engineer will be final and binding.
 - The levels, measurements and other information concerning the existing site as shown on the drawings are believed to be correct, but the contractor should verify them for himself.
 - Works to be performed shall also include all general works preparatory to the above mentioned works of any kind necessary for the due and satisfactory execution, completion and maintenance of the works to the intent and meaning of the drawings adopted and technical specifications, to best Engineering standards and orders that may be issued by the Engineer from time to time, compliance by the agency with all Conditions of Contract, supply of all materials, apparatus, plants, equipment, tools, fuel, water, transport, offices, stores, workshop, staff, labour and the provision of proper and sufficient protective works, diversion, temporary fencing, lighting and watching required for the safety of the public and protection of works on adjoining land; first-aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, provident fund, fees, royalties, duties or the other charges arising out of the erection of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion.
 - Any other item of work as may be required to be carried out for completing the work under this Contract in all respects in accordance with the provisions of the Contract and/or to ensure the safety of installation during and after execution.
 - The proposed capacities, sizes, ratings of equipment in Lift and Escalator system, as a result of the design development shall be demonstrated by a proper design and testing / simulation study and subject to review by the “Engineer”.
- Incoming Power supply at 415 V, 3 phase, 50 Hz to the Lifts and Escalators will be provided by the E & M Contractor up to an Isolator at a location next to the Lift shaft and inside Escalator Pit for Lifts and Escalators respectively. The Lift & Escalator Contractor is required to provide suitable connection from these Isolators to their respective Control panels which includes cables, cable containment and termination at both ends.

2.2 Lifts and Escalator System**Schedule of Lifts for Phase I – Elevated Stations**

Station	Rating / Capacity (Kgs)	Speed (m/Sec)	Floors to be Served	Units	Approximate Travel Distance in metres
Phase- I - Elevated Stations - Schedule of Lifts**					
Lift Type - Machine room-less type suitable for Metro Station Operation					
Salt Lake Stadium	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	2	
			Platform level		
Bengal Chemical	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	2	
			Platform level		
City Center	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	2	
			Platform level		
Central Park	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse /Platform level		
			Platform level	2	
			FOB level		
Karunamoyee	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	2	
			Concourse level		
			Concourse level	2	
			Platform level		
Salt Lake Sector V	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	2	
			Platform level		
TOTAL No. OF LIFTS (1)				19	Nos.

** - Tentative Quantity – Actual quantity and details will be further confirmed in Tender Document.

Schedule of Lifts for Phase-II – Underground Stations

Station	Rating / Capacity (Kgs)	Speed (m/Sec)	Floors to be Served	Units	Approximate Travel Distance in metres s
Phase-II - Underground Stations - Schedule of Lifts **					
Lift Type - Machine room-less type suitable for Metro Station Operation					
Howrah Maidan	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	1	
			Platform level		
Howrah *	26 Persons /2000 Kgs-	1.0 metre / second.	Entrance level	1	
			Upper Concourse level		
			Upper Concourse level	3	
			Mechanical Level		
			Lower Concourse level		
			Platform level		
Mahakaran	26 Persons /2000 Kgs	1.0 metre / second.	Entrance level	1	
			Mechanical Level		
			Concourse level		
			Concourse level	1	
			Platform level		
Central	26 Persons /2000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	1	
			Platform level		
Sealdah	26 Persons / 2000 Kgs-	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	3	
			Platform level		
Phool Bagan	13 Persons /1000 Kgs	1.0 metre / second.	Entrance level	1	
			Concourse level		
			Concourse level	1	
			Platform level		
TOTAL No. OF LIFTS (2)				16	Nos.

** - Tentative Quantity – Actual quantity and details will be further confirmed in Tender Document.

Total No. of Lifts = Total (1) + Total (2) = 19 + 16 = 35 Nos.

Schedule of Escalators for Phase- I – Elevated Stations

Station	Nominal Speed (m/Sec)	Floors Served	Units	Remarks
Phase- I - Elevated Stations - Schedule of Escalators **				
Escalators suitable for semi-outdoor installation – Capacity - 60-90 persons per minute				
Salt Lake Stadium	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	1	
		Concourse level to Platform level	2	
Bengal Chemical	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	2	
		Concourse level to Platform level	2	
City Center	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	2	
		Concourse level to Platform level	2	
Central Park	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse / Platform level	1	
		Platform level to FOB level	2	
Karunamoyee	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	2	
		Platform level to FOB level	2	
Salt Lake Sector V	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	1	
		Concourse level to Platform level	2	
TOTAL No. OF ESCALATORS (1)			21	Nos.

- Escalator Inclination =30 degree
- Rise = max 8mm at a step width of 1000 mm

** - Tentative Quantity – Actual quantity and details will be further confirmed in Tender Document.

Provisions for energy saving in escalator system may also be included in the Main Tender document i.e. on no load condition, after certain time :-

(i) Escalator should come to crawling speed of 0.2 m/sec and then stop.

(ii) Escalator should come to crawling speed of 0.2 m/sec and remain at crawling speed.

Schedule of Escalators for Phase-II – Underground Stations

Station	Nominal Speed (m/Sec)	Floors Served	Units	Remarks
Phase- II - Underground Stations - Schedule of Escalators**				
– Escalators suitable for semi-outdoor installation – Capacity - 60-90 persons per minute				
Howrah Maidan	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	1	
		Concourse level to Platform level	1	
Howrah	0.65 m/sec and 0.5 metres/sec	Entrance level to Upper concourse level (including sub-way)	13	
		Upper Concourse level to Mechanical level	4	
		Upper Concourse to Lower concourse level	2	
		Mechanical level to Lower concourse level	2	
		Lower Concourse level to Platform level	4	
Mahakaran	0.65 m/sec and 0.5 metres/sec	Entrance level to Mechanical level	3	
		Mechanical level to Concourse level	4	
		Concourse level to Platform level	2	
Central	0.65 m/sec and 0.5 metres/sec	Entrance level to Upper concourse level	2	
		Upper concourse level to Lower concourse level	2	
		Lower Concourse level to Platform level	1	
		Upper Concourse level to Platform level	2	
Sealdah	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	5	
		Entrance level to Sub way	1	
		Concourse level to Platform level	3	
Phool Bagan	0.65 m/sec and 0.5 metres/sec	Entrance level to concourse level	1	
		Concourse level to Platform level	1	
TOTAL No. OF ESCALATORS (2)			54	Nos.

- Escalator Inclination =30 degree
- Rise = max 8mm at a step width of 1000 mm

** - Tentative Quantity – Actual quantity and details will be further confirmed in Tender Document

Provisions for energy saving in escalator system may also be included in the Main Tender Document i.e. on no load condition, after certain time :-

- Escalator should come to crawling speed of 0.2 m/sec and then stop.**
- Escalator should come to crawling speed of 0.2 m/sec and remain at crawling speed.**

Total No. of Escalators = Total (1) + Total (2) = 21 + 54 = 75 Nos.

2.3 Lifts - 6 Nos. Underground Stations and 6 Nos. Elevated Stations

2.3.1. Lifts

The scope of work under this contract shall include the Lift Installation works comprising of but not limited to the following:

- Lifts shall be of machine-room less type for the movement of disabled and elderly persons in stations.
- Machine-room less Elevators shall be provided in the stations to facilitate the movement of commuters, handicapped person, staff and cash trolleys between the different levels of the stations from Ground level (GL) to the Concourse (C) or from Concourse (C) to Platforms (P).
- Lifts shall be of “fit for purpose”, easily maintainable, highly reliable and the level of service required for the handicapped application, the reliability, availability and maintainability shall be more than 99.8%, more than 1200 hrs, and less than 4 hrs respectively.
- The specified level of reliability, availability, maintainability and safety requirements of the these systems shall be achieved and verified by the Contractor by analysis, simulation, testing and commissioning, and system demonstrations as required in this Specification.
- The Contractor shall carefully study the space layouts allocated for the installation of machine-room less Lifts to ensure that all relevant safety clearances and rules are complied with and performance requirements are fully met.
- Lifts shall be provided in the stations and its entrances to facilitate the movement of commuters with provisions for people of special need, staff and cash trolleys between different levels of the stations from entrances to the platforms.
- All bearings provided, as part of the lift system shall have a minimum design life of 110,000 hours.
- Shall co-ordinate the lifts travel and other relevant information with the Civil and System-wide Contractors.
- Each lift shall have its own driving machine. The method of drive shall be traction, which shall make use of sheaves and ropes and **machine room-less lift**.
- The design life of the lifts shall be a minimum of 20 years and no major repairs shall be required for the entire period. This is subject to the inspections and maintenance being carried out in accordance with the Contractor's Operation and Maintenance Manuals as accepted by the Engineer.
- The lift shall be of proven design and have been in use for a minimum of five years in an existing rapid transit system, railway station or airport.
- The design of the lifts shall take into consideration of fire prevention, elimination of dust and dirt traps, and easy accessibility for cleaning and routine maintenance.

- All rotating and moving parts shall be fully guarded where practicable.
- The nominal speed for the lifts shall be 1.0m/s in either direction.
- Each lift shall be designed to clear lift shaft dimensions indicated in the architectural drawings. The Contractor shall co-ordinate with the Civil Contractors to finalise the size and the related construction tolerances required.
- The false ceiling height of the lift car shall not be less than 2300mm.
- Both the car and landing entrance clear opening width shall not be less than 1000mm. The height shall not be less than 2100mm.
- The approximate travel and the location of the landings of each lift shall be given in the schedule of lifts as a part of Tender Specification. Each lift shall serve the levels as indicated in the schedule. The landing doors are either at the same side or opposite side of the shaft. The Contractor shall verify the number of Elevators vertical rises, travels, stops, delivery routes and all other relevant information by co-ordination with the respective Civil Contractors. It shall be responsibility of the Contractor to provide the elevator suitable for the constructed shaft. No variation on this account will be payable.
- The levelling accuracy shall be within ± 5 mm of the finished floor level.
- VVVF drive
- The running clearance of each lift between the lift car threshold and landing door sill shall not be less than 15mm but not more than 30level of LEED Accreditation.
- Providing all the required civil works details / inputs including foundations, inserts, openings and other structural works required for the erection of Equipment, system and sub-system to the Civil Contractor (Elevated, UG1 and UG2) in time for casting. Finishes Schedule
- Lift Interior Finishes generally as follows unless specifically specified as Glass Lifts for a few lifts in the specification:

Hall Entrance Design		
1	Door	Laminated and toughened fire rated safety glass with stainless steel door frame
2	Door Frame/Jamb	Hairline finish Stainless steel (Grade 316)
3	Transom Panel	Hairline finish Stainless steel (Grade 316)
4	Car Position Indicator	Digital type with direction arrows on hairline finish stainless steel faceplate (Grade 316)

5	Hall Call Button	Micro-touch type on hairline finish stainless steel faceplate
6	Door sill	Stainless steel (Grade 316)
Car Interior Design		
7	Door	Laminated and toughened safety glass with stainless steel car door frame
8	Car Walls	Laminated and Toughened safety glass / Hairline finish Stainless steel (Grade 316)
11	Transom Panel	Laminated and Toughened safety glass / Hairline finish Stainless steel (Grade 316)
12	Entrance Column	Hairline stainless steel
13	Floor	20 mm thick 600 x 600 granite tile
14	Kick Plate	Hairline stainless steel skirting
15	Handrail	Hairline stainless steel
16	Ceiling	Hairline stainless steel finish with recessed LED lights/ down lights.
17	Car Position Indicator	Digital type with direction arrows on hairline stainless steel faceplate
18	Car Call Button	Micro-touch type integrated with the car operating panel
19	Car Operating Panel	Hairline stainless steel faceplate incorporated with holder for “ Lift Maintenance Certificate “



- The station wise number of lifts, type of Lift (Glass / Stainless steel) and height of travel within these bands shall be confirmed to the Contractor, 90 Days after issue of Letter of Acceptance
- Provision of I/O points and accessories for the Lift and Escalator system to Integrate with Station Management System (ISMS) (E & M SCADA).
- Interface and coordination with other Designated System Contractors.
- Preparation of Operation and Maintenance Manual, Training of maintenance / Operation personnel.
- Preparation of working drawings and “As Built” drawings
- Obtaining the Fire clearance certificate from Fire authorities, Environmental Dept of Govt. of West Bengal and other statutory authorities as applicable.

- Obtaining the clearance certificate from Dept. of Electricity of West Bengal and other relevant statutory authorities as applicable
- The Contractor shall be fully responsible for obtaining relevant safety certificate or license or any other documents required from statutory authorities for commissioning the regular operation of Machine-room less Lifts. The renewal of the license/safety certificate during DLP will also be the responsibility of the contractor. Fee, if any for obtaining such license/ certificate shall be borne by the contractor.
- The Contractor shall provide adequate signage and graphics as being statutory requirements, for the safe and proper utilisation of each equipment, in adequate number exhibited at required locations
- Warranty Obligations during 2 years Defect Liability Period.
- 3 years Comprehensive Maintenance coverage of the entire system under the Scope of this tender beyond Defects Liability period
- Transportation of materials and equipment for installation purposes.
- Spare parts, special tools, testing and diagnostic equipment and measuring instruments.
- Training and Transfer of Technology
- Documentation
- Furnishing necessary input to Escalator Contractor for Control and monitoring system.
- Comprehensive Maintenance / Maintenance without Spares for specified period.
- Services.

2.4 Escalators

The scope of work under this contract shall include the Escalator Installation works comprising of but not limited to the following:

- Escalators shall be of Semi-outdoor type for Elevated Stations and Underground Stations and suitable Metro Station duty.
- Escalators shall be reversible and capable of continuous operation in both directions for a period of 20 hours a day, seven (7) days a week 365 days per annum, within the environmental conditions prevailing at each station and under a loading cycle as indicated below but not limited to the following:

3 hours	40% full load
2 hours	100% full load
8 hours	50% full load
2 hours	100% full load
<u>5 hours</u>	40% full load
<u>20 hours</u>	

- The escalator shall be of proven design and have been in use for a minimum of five years in an existing mass transit system or in major Airports at a speed of 0.5 m/s.
- Escalators shall be designed for installation and operation at an angle of inclination of 30°.
- Steps shall have a nominal width of 1000mm. Four flat steps shall be provided at both upper and lower landings.
- Escalators shall be self-contained units consisting of truss, tracks, step drive units, steps, step chains, comb plates, handrails, landing plates, driving machines, controllers, safety devices, balustrades and all other components required to provide a complete installation with the controller installed outside the truss.
- Materials used shall be non-combustible and selected to achieve a fire-resistant installation.
- Escalators shall have a design life of thirty (30) years and no major repairs shall be necessary until the fifteenth (15th) year. Major repairs shall consist of repairs to the steps, track system, step chains, main drive system, traction machines, landing plates and tension carriage due to causes other than those attributable to normal wear and tear. This is subject to inspections and maintenance being carried out in accordance with the Contractor's Operation and Maintenance Manuals as accepted by the Engineer.
- Escalator design shall give consideration to fire prevention, elimination of dust and oil trapping configurations, ease of handling, access into the station and ease of access for routine maintenance.
- All rotating and moving parts shall be fully guarded where practicable.
- In the case of adjacent escalators, it shall be possible to remove or replace all components of one unit, without stopping or interfering with the operation of the adjacent unit.
- Escalator components shall be protected against corrosion as follows:
 - (a) Truss, balustrade supports, floor plate and comb plate supporting structure and backing : Hot-dipped galvanised, minimum thickness 85µm.
 - (b) Handrail guides steel profiles / brackets : Stainless steel.
 - (c) Step chain : Special protection against dust, water, mechanical damage, etc during installation shall be provided.

(d) Steps : Black Stainless steel / Black Aluminium.

(e) Floor plate infill : Stainless steel/Aluminium.

(f) All bolts, nuts, shims and other hardware : Stainless steel / sheradised.

(g) Balustrade profiles, interior balustrade panels, skirt panels, outer cladding panels : 2mm thick, high grade stainless steel 304, hairline finish.

- Unless otherwise specified, all electrical equipment supplied and installed shall have at least an IP Class 55 protection rating.
- The elongation of the main drive chain and handrail drive chain shall not exceed 2% of the length of chain within the first year of operation. Initial length of the chain during handing over shall be given for each escalator and stated in the data plate.
- All key switches used shall have the same type of switch cylinder and the key shall be common to all escalators. The cylinder used shall be unique to this Contract.
- The lower pit of all escalators shall be provided with a detection device, such as float switch, to stop the escalators if the pit is flooded. All equipment to be provided inside the pit at street level shall be of IP-67. The Civil Contractor shall provide the drainage system from the escalator pit to a pump sump. Alternatively, the Civil Contractor shall construct a dry sump of approximately 0.3m (length) x 0.3m (width) and 0.3m deep or cement screed sloping to the lowest point of the lower pit.
- PVC shall not be used in any component.
- LED Comb lighting on hand rails with Power supply back-up from EPS.
- Energy saving device
- Machine Room pits/closets
- All cables shall be insulated and sheathed with fire retardant, low smoke, halogen free materials. Fire resistant cables shall be used for critical circuits.
- Interface with Fire Protection Systems
- Signage
- EMC and Step potential Mitigation;
- Containment for telephone, Security, System, Integrated Station Management System;
- Earthing system for equipment body and Equi-potential bonding system
- Equipment sizing and selection based on Sustainable Design, Energy efficiency and

obtaining highest level of LEED Accreditation.

- **Providing all the required civil works details / inputs including foundations, inserts, openings and other structural works required for the erection of Equipment, system and sub-system to the Civil Contractor (UG1 and UG2) in time for casting.**
- Provision of I/O points and accessories for the Lift and Escalator system to Integrate with Station Management System (ISMS) (E & M SCADA).
- Interface and coordination with other Designated System Contractors.
- Preparation of Operation and Maintenance Manual, Training of maintenance / Operation personnel.
- Preparation of working drawings and “As Built” drawings
- Obtaining the Fire clearance certificate from Fire authorities, Environmental Dept of Govt. of West Bengal and other statutory authorities as applicable.
- Obtaining the clearance certificate from Dept. of Electricity of West Bengal and other relevant statutory authorities as applicable
- The Contractor shall be fully responsible for obtaining relevant safety certificate or any other document required from statutory authorities for commissioning the regular operation of Escalators.
- Warranty Obligations during 2 years Defect Liability Period.
- 3 years Comprehensive Maintenance coverage / Maintenance without Spares of the entire system under the Scope of this tender beyond Defects Liability period

- 2.5 Applicants are required to read carefully the contents of this document and to provide the requested information in sufficient detail so that the capabilities of the applicant can be fully appreciated and assessed.
- 2.6 Applicants may be single firm / Indian and International Company, either by themselves or as a joint venture / consortium, interested in appointment through International Competitive Bidding (ICB) as the Lift and Escalator System (L & E) designer and Manufacturers can apply. Applicants are required to have a good financial standing and performance record, requisite experience and capacity in the fields described above. Applicants must read carefully the directions concerning the requirements for groups. All members of a group will have their submittals individually evaluated in addition to evaluating their role in the group.
- 2.7 Applicants are to complete the Questionnaire and to provide the required information in separate Sections as described in the "Contents of each Section". These documents shall be submitted in sets of ONE original and ONE copy, and so marked. The use of sections is to separate the information provided so that there is no doubt as to the intention of the applicant, and to considerably simplify the process of assessment of the applicants' capability and suitability.

- 2.8 Submittals will be assessed to demonstrate convincingly that the applicant possesses the experience, and technical, administrative and financial capability to perform the contract for which application is made, and has a good performance record in the relevant area. Applicants will not be considered if they have a poor performance record such as the abandonment of works, not properly completing contracts, inordinate delays in completing contracts, litigation history, financial failure, etc. KMRCCL reserves the right to approach previous clients of the applicants.
- 2.9 The applicant, (each member in the case of a group) or any associate shall have to confirm and declare that no agent, middleman or any intermediary has been or will be engaged for the services or any other item/work related to the award and performance of the Contract. **They shall further confirm and declare that no agency commission, or any payment, which may be construed as an agency commission, has been or will be paid and that the Tender Price will not include any such amount.**
- 2.10 All documents shall be in the English Language.
- 2.11 All bidders will be notified about the result of their Application within 90- days from the latest submission date. However, KMRCCL will neither discuss any aspect of the evaluation process, nor the result of the evaluation.
- 2.12 Applicants should note clearly the date and time for submittal of applications. No late or delayed application will be accepted. Applicants are reminded that no supplementary material will be entertained by KMRCCL, and that evaluation will be carried out only on the basis of documents received by the closing time for receiving submittals. KMRCCL may seek certain clarification(s) from the applicants during the evaluation process.
- 2.13 In the event of a conflict or ambiguity between documents submitted by the applicant, the material contained in the Original set only will prevail.
- 2.14 Applicants will not be considered if they suppress information or make misleading or false representations in statements, attachments and pre-qualification questionnaire submitted in proof of the qualification requirements.

**PRE-QUALIFICATION FOR THE DETAILED DESIGN, DETAIL
ENGINEERING, MANUFACTURE, SUPPLY, DELIVERY AND STORAGE
AT SITE, LAYING, INSTALLATION, TESTING AND COMMISSIONING,
TRAINING OF PERSONNEL, DEMONSTRATION OF PERFORMANCE OF
SYSTEM / EQUIPMENT OF LIFTS AND ESCALATORS SYSTEM (L & E)
OF UNDERGROUND AND ELEVATED SYSTEM OF
KOLKATA METRO EAST-WEST LINE PROJECT
(TENDER NO.5 PQ-UG/EL - L&E)
(Revision 1)**

3.0 PROJECT

The Kolkata Metro Rail Corporation Ltd. (KMRCL) has been authorised to proceed with the implementation of the Kolkata Metro East-West Line project.

- 3.1 The project is financed partly through equity participation by GOI and GOWB and partly through loan from Japan International Cooperation Agency (JICA). This work is funded by the two Governments. The execution of this tender **does not** require JICA concurrence at any time.
- 3.2 Payments under these contracts will be made in any two **freely tradable** foreign currencies, and Indian Rupees. The full detail will be provided in the main tender Documents.
- 3.3 This pre-qualification Document refers to Lift & Escalator (L& E) System required to operate the Project or part thereof.
- 3.4 The KMRCL intends to invite suitably qualified Indian and international applicants/ Consortium / Groups/ Joint Ventures to submit tenders through International Competitive Bidding (ICB) for the Part Detailed Design based on Accepted Definitive Design, Manufacture, Supply, Delivery and storage at Site, Laying, Installation, Testing and Commissioning, Training of Personnel, Demonstration of Performance of the System and Equipment of Lift & Escalator (L& E) System for Underground and Elevated System of Kolkata Metro East – West project (Tender No. 5 – UG/EL - L & E).
- 3.5 This document describes the pre-qualification application procedure and requirements.
- 3.6 International Applicants may be required for transfer of technology for design, system assembly, laying, installation, and maintenance and software customization/ modification within a defined time frame. For this purpose the applicant may associate with local contractors experienced in requisite disciplines.
- 3.7 The contractor shall be required to interface closely with the General Consultants, Detail Design Consultants appointed by KMRCL and the civil/structural and other System wide Contractors working on Project.
- 3.8 The successful Bidder will be required to set up a design/ Project office in Kolkata to enable their design development to be monitored and checked by the KMRCL's authorised representative.

- 3.9 Interested designers and Contractors, Indian and International may apply for pre-qualification as sole contractor or as joint venture, partnership or consortium (group). It will however, not be permitted to tender for the same contract in their own name and at the same time as part of a joint venture, partnership or consortium. In such as case both tenders will be rejected.
- 3.10 All members along with others will be jointly and severally responsible. They shall be evaluated for their particular roles, extent of participation, experience and capabilities. Applicant has to give the confirmation for above in the Verification Statement in Annexure 3. In case of non-confirmation and non-compliance of the statement, the Bidder is liable to be summarily rejected.
- 3.11 The basis for evaluation of applications is described in Clauses 7.13 and 7.15 to 7.17 herein. For any other contract of similar works KMRCL may invite Tenders from the same pre – qualified firms.
- 3.12 Applicants for pre-qualification should note that this Pre-qualification Enquiry and Questionnaire are intended to provide preliminary information concerning the scope of work and its component contracts. The information contained herein shall not in any way be interpreted as binding on Kolkata Metro Rail Corporation Ltd., and its agents, successors or assigns.
- 3.13 Applicants are advised that selection of contractors as potential Bidders shall be entirely at the discretion of KMRCL. Applicants will be deemed to have understood and agreed that no explanation or justification of any aspect of the pre-qualification process will be given and that the KMRCL's pre-qualification decisions are without any right of appeal whatsoever.
- 3.14 All costs incurred by an applicant for pre-qualification shall be borne by the applicant. KMRCL, its agents, successors and assigns are entirely without any liability for such costs.
- 3.15 KMRCL reserves the right not to proceed with the pre-qualification procedure at any time without notice or liability.
- 3.16 All documents and other information supplied by the KMRCL or submitted by an applicant shall remain or become the property of the KMRCL. Applicants are to treat all information as strictly confidential. KMRCL will not return any pre-qualification submission.
- 3.17 Applicants are advised that KMRCL will not respond to enquiries or enter into communications concerning or relating to the pre-qualification procedure. However, KMRCL may seek certain clarifications from the Bidders during evaluation of bids. The clarifications are to be replied within the time frame prescribed in the correspondence. **However no supplementary material (Document) submission will be entertained by KMRCL and the evaluation will be carried out only on the basis of Document received by the closing time stipulated for such submittals.****
- 3.18 Each applicant (each member in the case of a Group) or any Associate, will be required to confirm and declare with the Pre-Qualification Application that no agent, middleman or any intermediary has been, or will be, engaged to provide any service, or any other item or work related to the award and performance of this Contract. They will have to further confirm and declare in the submittal that no agency commission or any payment which may be construed as an agency commission has been or will be, paid and that the tender price will not include any such amount.

- 3.19 KMRCL reserves the right to accept or reject any or all proposals without assigning any reason what so ever. No Bidder shall have any cause of action or claim against KMRCL for rejection of his proposal.
- 3.20 Canvassing in any form will result in summary rejection of the tender.
- 3.21 NOT USED
- 3.22 *The estimated cost of the work is approximately **INR 757.4 Million (US\$ 17.04 million).***
- 3.23 *The tender shall be valid for 90 days from the last date of submission of tender.*
- 3.24 For details, please visit our web site: www.kmrc.in.
- 3.25 Bidders shall be required to update the financial information used for pre-qualification at the time of submitting their bids and to confirm their continued compliance with the qualification criteria. A bid shall be rejected if the Applicants/group/ Consortium / joint venture qualified thresholds are no longer met at the time of bidding.

4.0 PROJECT ORGANISATIONS

- 4.1 The Executing Agency for the KOLKATA East West Metro Project is the KOLKATA Metro Rail Corporation Ltd. The KMRCL office is located at:

Chief Electrical Engineer

Kolkata Metro Rail Corporation Ltd.

HRBC Office Complex (4th & 5th Floor)

Munshi Prem Chand Sarani

Kolkata – 700 021

Telephone: (91) – 33 22314553

India

Facsimile:

- 4.2 The KMRCL will be the "Employer" under the terms of any contracts to be awarded.

5.0 PROJECT DESCRIPTION

- 5.1

Sl. No.	Name of section	Section length (Km)				Station			
		At grade	elevated	Under Ground	Total	At grade	elevated	Under Ground	Total
1	Howrah Maidan - Subhash Sarobar	-	-	8.84	8.84	-	-	6	6
2	Subhash Sarobar Sector V	-	5.74	-	5.74		6		6

Inter-station distance and their location from ground

Station	Distance(KM) from Howrah Maidan	Location from ground (meter)	Position & type of station
Howrah Maidan	0,00		
Howrah *	0,55	-30,75	Island type : UG

Station	Distance(KM) from Howrah Maidan	Location from ground (meter)	Position & type of station
Mahakaran	2,25	-20,39	Island type with side platform: UG
Central	3,14	-21,48	Island type : UG
Sealdah *	5,10	-13,72	Island type with side platform: UG
Phool Bagan	6,945	-12,89	Island type : UG
Salt Lake Stadium	8,675	+8,6	Side Platform
Bengal Chemical	9,425	+11,97	- Do -
City Centre	10,55	+11,89	- Do -
Central Park	11,525	+11,87	- Do -
Karunamoyee	12,275	+11,87	- Do -
Sector V	13,4	+12,05	- Do -

With respect to ground 00

* Additional side platform on both sides

Note: Final alignment may change the location and position of stations after accepted final design of U/G is submitted

The commissioning schedule of the project is targeted as follows:

Sl. No.	Section	Expected date of introduction of commercial services
1	Sector V – Subash Sarovar	NOV 2013
2	Yard & Depot at Central Park & OCC	JAN 2013
3	Complete Alignment	NOV 2014
4.	Tentative time required for the completion of this contract	36 months

5.2 The tender document to be issued by the KMRCL for the UG/EL - L & E contract will include Tender Drawings, GCC, SCC, ITT Employer's Requirements, Technical Requirements, and Technical Specifications for Detailed Design, Detailed Engineering, Manufacture, Supply, Delivery and Storage at Site, Laying, Installation, Testing and Commissioning, Training of Personnel, Demonstration of Performance of System/Equipment and Construction of Lift & Escalator (L& E) System for Underground/Elevated Systems of Kolkata Metro East – West Line project (Tender No. 5 – UG/EL - L & E). This will principally cover performance but will provide technical requirements in sufficient depth to eliminate undesirable features.

5.3 The successful Bidder will be responsible for co-ordinating all interfaces between the systems he is offering and all other packages awarded to other Contractors / DDCs which impinge upon his design e.g. ECS, TVS, E & M, Rolling Stock, Power Supply System, Tunnel Fixed Structure, Elevated Viaduct Track, Station Buildings and Platforms, Signalling, Telecommunication and Maintenance Management Information System, Platform Screen Doors System, elevated Station Architectural finishes etc. KMRCL or its Engineers will

supervise the Interface / co-ordination between the successful Bidder of contract UG – L & E and other designated Contractors/DDCs.

- 5.4 The successful Bidder will also be required to provide sufficient technical data, (dimensions, weight and mounting details) including maintenance schedules, inspection/repair produces any machinery/plant required of all equipment/all sub-systems. In addition other technical interface details will be provided including earthing details etc. to enable other project contractors to proceed in parallel with their design and development.
- 5.5 Safety worthiness of the system will be evaluated by Commissioner of Metro Rail Safety under Ministry of Civil Aviation Govt. of India.
- 5.6 The Contractor should be in position to provide necessary support (have experts with adequate knowledge and experience, qualification, and to submit such documentation as required) to assist KMRCL for effective interaction with Indian authorities viz. Ministry of Railways, RDSO, Commissioner of Metro Railway Safety, EIG and Kolkata Fire Service (KFS).

6.0 CONTRACTUAL MATTERS.

- 6.1 The construction works will be procured through International Competitive Bidding (ICB) by pre-qualified Bidders.
- 6.2 The Tender for the Detailed Design, Detailed Engineering, Manufacture, Supply, Delivery and storage at Site, Laying, Installation, Testing and Commissioning, Demonstration of Performance of the System and Equipment of Lift & Escalator (L & E) System for Underground / Elevated System of Kolkata Metro East – West project (Tender No. **5 – UG–L & E Rev 00**) will give details of conceptual designs and outline technical specification and Employer's Requirement. The Bidders will be required to develop from these details, designs and specifications sufficiently detailed to allow KMRCL to assess the fitness and adequacy of each Bidder.
- 6.3 The successful Bidder will be required to co-ordinate his system to interface where applicable with other designated contractors for services such as TVS, ECS, Platform Screen Door, Power Supply System, Lift & Escalators, Rail Systems and Civil & Structural etc. to develop and execute the integrated system for the station. Such integration and co-ordination is of paramount importance for the timely and satisfactory completion of the project.
- 6.4 If contract UG-E&M is awarded to a combination of commercial entities, as discussed in subsection each member thereof will be jointly and severally liable for the whole performance of the contract obligations. Jointly and severally liable performance guarantee may be required from the ultimate owning companies of a Bidder.
- 6.5 The contractor shall be responsible for obtaining relevant certificates or clearance from local civic authorities, viz completion certificates, fire clearance etc. as per the time schedule prescribed by KMRCL. The Contractor to note that obtaining all the Authority related clearances, permissions and Certifications for the work carried out by the Contractor is included in the Scope of Work. This includes obtaining mandatory clearances from West Bengal Pollution Control Board (WBPCB) as applicable to the Contractor.

- 6.6 The successful Bidder will have to ensure transfer of technology for design, indigenous, system assembly, installation, maintenance and software customisation/modification within a defined time frame. Transfer of Technology will be limited to the Operation and Maintenance of the Equipment & Systems covered under this Contract. Canvassing in any form will result in summary rejection of the tender.
- 6.7 Applicants/Group/Consortium / JV shall be required to provide bid security in the form of a certified cheque, letter of credit, or bank guarantee from a Indian Scheduled Commercial Bank of bidders choice for an amount which will be specified in the bid document, which is usually 1 % to 2 % of the tender value.

7.0 PREQUALIFICATION APPLICATION

- 7.1 Copies of the Enquiry Document may be collected from the office of the KMRCL, 4th & 5th Floor, HRBC Bhaban, Munshi Premchand Sarani, Kolkata-21, INDIA. The Pre-Qualification Documents will be available on payment of a non-refundable fee of **Rs 25,000 (US\$ 500)** in the form of a crossed demand draft from a Scheduled Commercial Bank in India in favour of Kolkata Metro Rail Corporation Limited, payable at Kolkata, on all working days between **11.00hrs and 17.00hrs (IST) from 4th July 2011 till 14th July 2011**. In case Enquiry document is downloaded from web-site, cost of document to be submitted along with the submission of tender or before Pre-Bid meeting else the tender will be rejected.
- 7.2 Clarifications, if any, asked in writing only will be entertained by KMRCL. Pre-bid meeting may be held on **05th August 2011 at 14.30 hrs**. Last date for seeking clarifications is **16th August 2011** and this will be replied by **26th August 2011**
- 7.3 Applicants for pre-qualification are required to submit the filled Pre-qualification Questionnaire and associated information as herein requested.
- 7.4 Applicants shall submit the requisite information in the sectional arrangements as indicated in the Table "Contents of Sections" in the pre-qualification questionnaire.
- 7.5 Applicants should attach clearly marked and referenced continuation sheets in the event that the space provided in the Questionnaire is insufficient. Alternatively, Applicants may format the questionnaire making due provision for incorporation of the requested information.
- 7.6 Applications for pre-qualification must be submitted by hand or by registered post so as to reach the office of the **KMRCL on or before 15.00 hrs (IST) on 26th September 2011**
Late or delayed applications (received after date and time of submission of bids) will not be received or considered.
- 7.7 Submissions shall be made in two sets of documents comprising one original set and one copy and addressed to :
Managing Director
Kolkata Metro Rail Corporation Ltd.
HRBC Office Complex (4th & 5th Floor)

Munshi Prem Chand Sarani

Kolkata – 700 021

Telephone: (91) – 33 22314553

India

Facsimile:

All envelopes shall be titled "**PRE-QUALIFICATION SUBMISSION PQ – UG/EL-L & E**" and clearly marked in English, duly giving:

Name of Applicant

Contract Number

Copy Number (i.e. Original, or Copy 1)

- 7.8 Information supplied by an applicant (or other constituent member if the applicant is a group) must be relevant to the applicant or constituent member named in the application and not, unless specifically requested, to other associated companies or firms. Unless otherwise approved by the KMRCL, invitation to tender documents will only be issued to the Lifts & Escalator Design, Manufacture, Supply and Construction companies or groups whose identity and/or constitution is/are identical to that at pre-qualification. The information and experience provided of an entity (Constituent Member) in a Group must be commensurate with the proposed role of that entity in the Contract to be awarded. However the lead member of the Consortium or the Applicant in case of a sole bid should be Technical Member
- 7.9 A Group comprising a joint venture, partnership or consortium may apply for pre-qualification. In the case of applications from groups, a statement of participation for each constituent member shall be submitted to the effect that they are bona fide members of the group applying for pre-qualification and that, in the event of pre-qualification, they agree to be jointly and severally liable to KMRCL under any contract which may be subsequently awarded to the group. Details of the existing or proposed joint venture, partnership or consortium agreement in the form of a Memorandum of Understanding (MOU) signed by all participants will be required. Foreign Applicants /Partners of JV / Consortium shall obtain requisite attestation to their notarisation from the Indian Embassy in their country.
- 7.10 The successful tenderer will be required to ensure transfer of technology for design, indigenous system assembly, installation, maintenance and software customisation / modifications within a defined time frame.
- 7.11 Applicants will be committed to the transfer of technology for the design, indigenous system assembly, Laying, installation, maintenance and software customisation/modifications with in a defined time frame. For that purpose, the Applicants may set up suitable facilities in India. This aspect would need to be adequately reflected in the Indian rupees portion of the tender price.
- 7.12 KMRCL will review and evaluate the information submitted by applicants and select the applicants to whom invitations to Tender will be issued.
- 7.13 In responding to the pre-qualification submission, applicants shall demonstrate their capabilities, by providing material based on their experience, past performance, their personnel, equipment and financial resources, including but not limited to the following:
- **Capability to execute Lift & Escalator System as required under the scope of present contract PQ-UG/EL - L&E (Rev 00)**

- **Capability to perform design verification and detail design engineering to the requisite standard and to monitor construction development.**
 - **Capability to programme and re-programme the design work.**
 - **Capability to undertake, manage and supervise the Lift & Escalator work, in a manner and to a quality commensurate with internationally accepted norms for the noted scope of work.**
 - **Capability to undertake and manage and co-ordinate contract interfaces.**
 - **Capability and experience to execute the work in time by having adequate resources.**
 - **Capability to carry out all minor civil works like Equipment related plinths, pockets, inserts, supports are part of L & E Contractor's scope. However all major foundations are carried out by Civil Contractors.**
 - **Capability to operate design verification, construction quality control programme.**
 - **Capability to transfer of technology for design, indigenous system assembly, installation, maintenance and software customisation/modifications with in a defined time frame.**
- In case the application is from Joint Venture, or consortium, each member of the group and each discipline should substantially satisfy the pre-qualification requirements for the system for which the Member is participating.
- 7.14 Applicants will not on their own, provide additional information or material subsequent to the date of submission, and such material if submitted will be disregarded. However KMRCL may seek certain clarification(s) from the applications during the evaluation process.
- 7.15 LITIGATION HISTORY: The Applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under its execution over the last ten years in the pro-forma enclosed as Annexure – 1B, 2B. If the Applicant or any partner of joint venture is involved in frequent litigations, then it may result in failure of the application of the Applicant or any partner of joint venture as per the Initial Filter of Applicants – Check List.
- 7.16 EQUIPMENT CAPABILITIES: The Applicant should own or have assured access (through hire, lease, purchase agreement, availability of manufacturing equipment or other means) to the key items of equipment in full working order, and must demonstrate that, based on known commitments, they will be available for use in the proposed contract. The information is to be provided for all & each items in the pro-forma enclosed as Annexure – 4.
- 7.17 Pre – Qualification Evaluation Criteria (The lowest – point level summary) – To be evaluated first based on criteria laid down in 7.17.1 based on information submitted. Further evaluation as per a), b), c) & d) will be done in case the sole bidder /JV / Consortium who qualifies the lowest point level summary and the same will not be done if any bidder fails to clear Clause 7.17.1

An applicant would pass pre – qualification criteria, if he meets all four requirements (Ref: PREQUALIFICATION EVALUATION CRITERIA) as detailed below:

- (a) Pass in Initial filter check – list.
- (b) Pass in Financial Criteria T1, T2, T2A and T3
- (c) 50% marks-in Topic – II and III each - Pass
- (d) 60% marks- in overall (Topic – II + III). - Pass

The Employer reserves the right to waive minor deviations if they do not materially affect the capability of an applicant/JV/Consortium to perform the contract.

- 7.17.1 The lowest point level for each topic and conditions to be qualified as per the Pre – Qualification Evaluation Criteria is summarised as below:

Topic		The Lowest Point Level
I – Financial Standing	T1	Adequate Liquidity, Cash flow of INR 63 Million
	T2	Earnings before Tax, Positive in 3 years out of last 5 years
	T2A	Net Worth (Average of last Two Years), INR 158 Million
	T3	INR 227 Million , Average Annual Turn-over during last 5 years
II – Technical and Organisational Capability	T4	50% of Key Staff Graduates/Post Graduates
	T5	15 staffs
	T6	3 years experience
	T7	At least two disciplines not represented adequately in the Proposed Organisation
	T8	Follows internal QA Programme
III – Experience Record	T9	Three years in Business with Lift & Escalator System Works as detailed in Scope of Work
	T10	Supply and Installation of a minimum of at least 7 nos. of Lifts and 15 nos. of semi-outdoor Escalators in use for minimum of 5 years in METRO stations and/or in major Airports.
	T11	Manufacture, Supply and Installation of minimum 14 nos. of Lift and 30 nos. of semi-outdoor Escalator works completed for METRO stations and major Airports in the last 10 years
	T12	Design, of minimum 14 nos. of Lift and 30 nos. of semi-outdoor Escalator works completed for METRO stations and major Airports in the last 10 years

The above table indicates the lowest point level. For details regarding T1 to T12, please refer to Pre-Qualification Questionnaire.

Note: The above table indicates the lowest point level. For Applicants / Joint venture / Consortium must qualify as a group against item T4, T5, T6, T7, T8, T9, T10 to T12 and by each member for T1, T2, T2A and T3 on the basis of their role as Lead member or member in case of a group.

- Only completed works only will be considered. Client's certificate is essential to cover all requirements of criteria.
- Financial evaluation against T1, T2, T2A and T3 will be done for sole bidder as a whole and for each member in case of JV/Consortium. In case of JV/ Consortium, Lead member must fulfil 40% of the criteria and other members 25%. However in totality JV/Consortium (all the partners) put together should meet 100% of financial standing criteria at all times. All other criteria will be evaluated jointly as Consortium.
- Experience of the applicant working as sub-contractor in previous projects will also be considered.

7.18 NOT USED

7.19 All documents submitted by applicants shall be in the English Language. Submitted documents will not be returned.

7.20 CONFLICT OF INTEREST

If any of the circumstances below apply to the Applicant, the Members or the Leader or the Principal, please provide details including how it is proposed to deal with such conflicts/obtain approvals.

The applicant (including all members of a joint venture/consortium/group) shall not be one of the following:

- i) A firm or organization which has been engaged by the Employer to provide consulting services for the preparation related to procurement for or implementation of the project;*
- ii) Any association / affiliates (inclusive of parent firm) of a firm or an organization mentioned in sub paragraph (i) above or,*
- iii) A firm or an organization who lends , or temporarily seconds its personal to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity of the same project.*

KMRCL must be satisfied with the manner in which an Applicant proposes to deal with any conflict or approval as part of the award process.

7.21 CORRUPT OR FRAUDULENT PRACTICES

7.21.1 KMRCL requires that Bidders/ Contractors, under this contract, observe the highest standard of ethics during the procurement and executions of this contract. In pursuance of the policy/ KMRCL:

- (a) Defines, for the purpose of these provisions, the terms set forth below as follow:

- (i) "Corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) "Fraudulent practices" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of KMRCL, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive KMRCL of the benefits of free and open competition.
- (b) Will reject a proposal for award of work if he determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- (c) will declare a Bidder in eligible, either indefinitely or for a stated period of time, to be awarded a contract/contracts if he at any time determines that the Bidder has engaged in corrupt or fraudulent practices in competing for, or in executing, the contract.

7.22 AMENDMENT OF PREQUALIFICATION DOCUMENT

- 7.22.1 At any time prior to the deadline for submission of applications, in exceptional case only, KMRCL may amend the Pre-qualification documents by issuing addenda.
- 7.22.2 Any addendum issued shall be part of the Pre-qualification Documents and shall be communicated in writing to all who have obtained the pre-qualification documents from KMRCL as well as in the web-site.
- 7.22.3 To give applicants reasonable time to take an addendum into account in preparing their applications, KMRCL may, at its discretion in exceptional case only extend the deadline for the submission of applications.

7.23 CHANGE IN COMPOSITION OF JOINT VENTURE/ GROUP/ CONSORTIUM

Any change in a pre – qualified Joint Venture / Group / Consortium, will be subject to the written approval of the Employer prior to the deadline for submission of the bids. The KMRCL at its discretion may deny such approval if:-

- (i) Remaining partners do not meet the qualifying requirements.
- (ii) The new partners to a joint venture are not qualified, individually or as another Joint Venture.
- (iii) In the opinion of Employer, a substantial reduction in competition may result.

7.24 All documents submitted by applicants shall be in the English Language. Submitted documents will not be returned.

7.25 An authorised representative shall have the authority to conduct all business and incur liabilities related thereto for and on behalf of the firm or group it represents, during the pre-qualification and bidding periods. In case of a JV an authorised representative shall sign the authorisation. Such necessary authorisations duly notarised shall be attached to the application.

- 7.26 Introduction of Deemed Export Benefit clause for International Competitive Bids.
- 7.26.1 Conditions as per Ministry of Finance in order to avail the benefits of this clause criteria requirement is as follows:
- The overall project / specified work should have been funded by JICA and should be an International Competitive Bid.
- 7.26.2 The details about the deemed export benefits shall be indicated in the Main Tender document to be issued to the successful bidder.



KOLKATA METRO RAIL CORPORATION LTD
HRBC Office Complex, (4th & 5th Floor)
Munshi Premchand Sarani
Kolkata – 700 021, India
Phone : 22134344, Website: www.kmrc.in

**PRE-QUALIFICATION FOR THE DETAILED DESIGN, DETAIL ENGINEERING,
MANUFACTURE, SUPPLY, DELIVERY AND STORAGE AT SITE, LAYING,
INSTALLATION, TESTING AND COMMISSIONING, TRAINING OF
PERSONNEL, DEMONSTRATION OF PERFORMANCE OF SYSTEM /
EQUIPMENT OF LIFTS AND ESCALATORS SYSTEM (L & E) OF
UNDERGROUND AND ELEVATED SYSTEM OF
KOLKATA METRO EAST-WEST LINE PROJECT
(TENDER NO.5 PQ-UG/EL - L&E)
(Revision 1)**

PRE-QUALIFICATION QUESTIONNAIRE

AUGUST 2011

PRE-QUALIFICATION QUESTIONNAIRE

This document contains pro-forma letters and the Pre-qualification Questionnaire. These are to be reproduced and completed as appropriate and submitted as part of the Applicant's pre-qualification submission.

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Pro-forma Letter of participation from each Member of a Group (Joint Venture / Consortium Summary)	9
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CONTENTS OF EACH SECTION

SECTION NUMBER	CONTENTS OF EACH SECTION	REMARKS
1.	<u>Pro-Forma – General</u> Letter of Application	Pro-forma letters will be found on this part PQQ
	Completed Pre-qualification Questionnaire	The Pre-qualification Questionnaire is found on this part PQQ.
2.	<u>Pro-forma - Section 2</u> Memorandum and Articles of Association, or Partnership Deeds	A copy in English of the Memorandum and Articles of Association (or equivalent) for an incorporated applicant (or, in the case of a group, for each corporation forming a part of the applicant) / partnership Deeds.
	Documents relating to a Consortium / joint ventures, partnership or consortium. (a) Statement of participation from constituent members. (b) Details of previous collaborations. (c) Specimen Consortium / joint ventures, agreement and/or other (d) Details of proposed equity/other participation and areas of specialisation.	Applicant's attention is drawn to paragraph 7.8 of the Enquiry Document. A Pro-forma statement of participation to be completed by each member is on page 9 of the Questionnaire.
	Particulars of the authority which empowers the person or persons signing the letter of application, (and if appropriate, the statement of Participation from constituent members of groups) to represent the applicant.	KMRCL wishes to ensure that applications are submitted under the signature(s) of persons who properly represent the applicant. Accordingly, copies of such documents as powers of attorney, signed minutes of board meetings confirming board resolutions, current published lists of executive directors, etc should be submitted.
3.	<u>Pro-forma - Section 3</u> Documents relating to performance, current contracts, relevant experience.	The applicant shall submit details in support of statements (Clients certificate) in the Questionnaire or annexes thereto, which relate to performance, current contracts, relevant experience and Provenness of Service. .
4.	<u>Pro-forma - Section 4</u> Documents relating to Staff.	The applicant shall submit details in support of statements in the Questionnaire or annexes thereto which relate to its management organisation (existing or, in the case of new groups proposed), and of staff/principal or key members of staff as provided in the Questionnaire.

SECTION NUMBER	CONTENTS OF EACH SECTION	REMARKS
5.	<p><u>Pro-forma - Section 5</u> Documents relating to ownership and control of an applicant (or, in the case of a group, each constituent member)</p>	<p>Details shall be submitted giving full details of the ownership and control of the applicant (or, in the case of a group, each constituent member).</p>
	<p>Documents relating to the financial condition of an applicant (or, in the case of a group, each constituent member)</p>	<p>The following documents should be submitted in respect of each constituent, whether applying individually or as part of a group:</p> <ol style="list-style-type: none"> 1. Audited accounts for each of the last five full accounting periods together with their Auditor's Certificate. Such accounts shall include the Profit and Loss statement and the Balance Sheet. The Applicant also shall indicate the year wise Net Worth of each member for the previous five years from 2009-10. 2. A financial statement covering the period between the end of the last full accounting period 2009-10. This statement should indicate all significant financial matters subsequent to the end of the last full accounting period. Additionally, the financial statement should indicate any significant off balance sheet liabilities, including contingent liabilities. The financial statement should be signed by the Managing Director or Company Secretary of the respective company.
	<p>Document relating to the holding or parent company of an applicant (or, in the case of group, each constituent member).</p>	<p>If an applicant (or member of a group) is wholly or significantly owned by a holding or parent companies, the information relating to audited accounts and financial statement (as describe above) shall be provided for such intermediate or ultimate holding or parent companies. This information shall be provided in respect of all applicants, whether applying individually or as group together with Auditor's certification.</p>
	<p>Document including banking reference to demonstrate that the applicant has the liquidity to meet the requisite cash flow, after meeting requirements for known commitment</p>	<p>In respect of all applicants (whether applying individually or as part of a group) and all holding or parent companies thereof, a bankers reference (in English) should be provided from the applicant's or company's principal bank in its country of incorporation or registration.</p>

SECTION NUMBER	CONTENTS OF EACH SECTION	REMARKS
		Such reference should indicate the financial standing of the applicant and access to lines of credit of other financial resources
6.	Proforma Section 6 Documents relating to Project team.	The applicant shall submit details in support of statements in the Questionnaire or Annexes thereto, which relate to the design team.
	Documents relating to equipment capability.	The applicant shall submit details in support of statements in the Questionnaire or Annexes thereto, which relate to the equipment capability.

PRO-FORMA LETTER OF APPLICATION (on Firm's Letter Head)

(Applicant to provide date and reference)

Note: Spaces marked * on this pro-forma letter and on subsequent forms are to be completed by the employer.

The Managing Director,
Kolkata Metro Rail Corporation Ltd
HRBC Office Complex (4th & 5th Floor)
Munshi Prem Chand Sarani
Kolkata – 700 021
India

Ladies and/ or Gentleman,

1. Being duly authorized to represent and act on behalf of..... (hereinafter referred to as to” the Applicant”) and having reviewed and fully understood all of the prequalification information provided, the undersigned hereby apply to be prequalified by yourselves as a bidder for the following contract<s> under the.....*[name of the Project] project

Contract number*	Contract name*
KMRCL EWL UG/EL – L & E	DETAILED DESIGN, DETAILED ENGINEERING, MANUFACTURE, SUPPLY, DELIVERY AND STORAGE AT SITE, LAYING, INSTALLATION, TESTING AND COMMISSIONING, TRAINING OF PERSONNEL, DEMONSTRATION OF PERFORMANCE OF SYSTEM / EQUIPMENT OF LIFT AND ESCALATOR SYSTEM (L & E) AND MAINTENANCE OF UNDERGROUND / ELEVATED SYSTEM OF KOLKATA METRO EAST-WEST LINE PROJECT

<Note The Applicant is to delete, in ink, any contract for which it does not wish to prequalify, and sign and date the deletion.>*

* if the prequalification refers to only one contract, delete this note and spaces for additional contract references.

2. Attached to this letter are copies of original documents defining ²⁶:
 - (a) The applicant’s legal status
 - (b) The principal place of business; and
 - (c) The place of incorporation (for applicants who are corporations.) or the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms)
3. Your Agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and as requested by yourselves to verify statements and information provided in this application such as the resources, and competence of the Applicant.

4. Your Agency and its authorized representatives may contact the following persons for further information²⁷:

NOTES

- 26 For applications by Consortium / joint ventures, all the information requested in the prequalification documents is to be provided for the Consortium / joint venture, if it already exists, and for each party to the Consortium / joint venture separately. The lead partner should be clearly identified. Each partner in the Consortium / joint venture shall sign the letter.
- 27 Applications by Consortium / joint ventures should provide on separate sheet equivalent information for each party to the application.

General and managerial inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Personnel inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Technical inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Financial inquires	
Contact 1	Telephone 1
Contact 2	Telephone 2

5. This application is made with the full understanding that:
- (a) Bids by prequalified applicants will be subject to verification of all information submitted for prequalification at the time of bidding:
- (b) Your Agency reserves the right to:
- Amend the scope and value of any contracts bid under this project, in such event, bids will only be called from prequalified bidders who meet the revised requirements, and
 - Reject or accept any application, cancel the prequalification process, and reject all applications
- (c) Your Agency shall not be liable for any such actions and shall be under no obligation to inform the applicant of the grounds for them.

Applicants who are not Consortium / joint ventures should delete paragraphs 6 and 7 and initial the deletions

6. Appended to this application, we give details of the participation of each party, including capital contribution and profit / loss agreements, in the Consortium / joint ventures or association. We also specify the financial commitment in terms of the percentage of the value of the <each> contract, and the responsibilities for execution of the <each> contract.
7. We confirm that if we bid, that bid, as well As any resulting contract, will be:
 - (a) Signed so as to legally bind all partners, jointly and severally; and
 - (b) Submitted with a Consortium / joint ventures agreement providing the joint and several liabilities of all partners in the event the contract is awarded to us.
8. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed Name	Signed Name
For and on behalf of (name of Applicant or lead partner of a Consortium / joint ventures)	For and on behalf of (name of partner)

Signed Name	Signed Name
For and on behalf of (name of partner)	For and on behalf of (name of partner)
Signed Name	Signed Name
For and on behalf of (name of partner)	For and on behalf of (name of partner)

Joint Venture/ Consortium Summary

Total value of annual construction (and/or equipment, goods or services which apply to this contract) turnover, in terms of work billed to clients, in US\$ equivalent, converted at the rate of exchange at the end of the period reported:

Names of all partners of a joint venture/Consortium

1. Lead partner

2. Partner

3. Partner

4. Partner

5. Partner

6. Partner

Total value of annual construction (and/or equipment, goods or services which apply to this contract) turnover, in terms of work billed to the clients, in US \$ equivalent, converted at the rate of exchange at the end of the period reported:

Annual turnover data (Construction only: US\$ equivalent)

Partner	Form 2 page no.	Year 1	Year 2	Year 3	Year 4	Year 5
1. Lead partner						
2. Partner						
3. Partner						
4. Partner						
5. Partner						
6. Partner						
Total						

APPLICATION FORM (2b)

PAGE ___ OF ___ PAGES

Joint Venture/Consortium Agreement

To: The Managing Director,
 Kolkata Metro Rail Corporation

 4th & 5th Floor, HRBC Bhaban,

 Munshi Prem Chand Sarani

 KOLKATA 700021, INDIA

The undersigned of this declaration of cooperation are by means of attached Powers of Attorney legally authorized to act with regard to _____ [name of the Project] and on behalf of their organizations.

They hereby declare:

1. that they will legalize a Consortium / joint ventures Agreement in case that a Contract for the _____ [name of the Project] is awarded to their group;
2. that they have nominated _____ [name of the lead partner] as the Sponsor Firm of the group for the purpose of this Bid;
3. That they authorized Mr. /Ms. _____ [name of the person who is authorized to act as the Representative on behalf of the Consortium / joint ventures] to act as the Bidder's Representative in the name and on behalf of their group.
4. that all partners of the Consortium / joint ventures shall be liable jointly and severally for the execution of the Contract;
5. that this Consortium / joint ventures is an association constituted for the purpose of the execution of the _____ [name of the Project] under this Contract;
6. that if the Employer accepts the Bid of this Consortium / joint ventures, it shall not be modified in its composition or constitution until the completion of Contract without the prior consent of the Employer;
7. that each partner's share of the Work, stated as percentage of the total contract amount, shall be as follows:

Name of Partner	(Name the field of work)	Percentage Participation
1. Lead Partner		
2. Partner		
3. Partner		
4. Partner		
Total		100

Give names and positions of the proposed Consortium / joint ventures Representatives, as well as organization's names and addresses:

1.	Name:	Signature:
	Position:	Date:
	Representative of: (Organization's Name)	

2.	Name:	Signature:
	Position:	Date:
	Representative of: (Organization's Name)	

3.	Name:	Signature:
	Position:	Date:
	Representative of: (Organization's Name)	

4.	Name:	Signature:
	Position:	Date:
	Representative of: (Organization's Name)	

5.	Name:	Signature:
	Position:	Date:
	Representative of: (Organization's Name)	

PRE-QUALIFICATION QUESTIONNAIRE

- Notes:**
1. Each page of the Questionnaire and contents of Sections shall be signed by the Applicant.
 2. This entire Questionnaire pro-forma shall be completed in all respect.
 3. Questionnaire pro-forma relating to the various sections shall be incorporated in the respective sections.
(i.e. Pro-forma section 2 (replies to questions 9 to 14) will be included in the contents of section 2.)
 4. In the box

Y	N
---	---

 'Y' denotes Yes and 'N' denote No. Please tick mark
Whichever is applicable or write Yes or No explicitly, as the case may be.
 5. The PQ Document submitted shall be numbered sequentially and the page number of each answer should be noted against the respective item below.

PRO-FORMA SECTION 1- GENERAL (By Each Applicant)

1.	Name of contract for which pre-qualification is sought: UG/EL - L & E (Provide Details For Lift & Escalator System In Separate Sheets)																
2.	Type of Contract: Lift & Escalator (L & E) System <u>Lift System</u> 1. Part Design/ Complete Design of Lift System <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 2. Supply and installation of equipments <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 3. Testing and performance of the equipment and system <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 4. Comprehensive Maintenance of the equipment & system beyond defects liability period <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> <u>Escalator System</u> 1. Part Design/ Complete Design of Escalator System <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 2. Supply and installation of equipments <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 3. Testing and performance of the equipment and system <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> 4. Comprehensive Maintenance of the equipment & system beyond defects liability period <table border="1" style="float: right;"><tr><td>Y</td><td>N</td></tr></table> Please ✓ whichever is applicable	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
Y	N																
Y	N																
Y	N																
Y	N																
Y	N																
Y	N																
Y	N																
Y	N																
3.	State the structure of the applicant's organisation (applicants to complete/delete as appropriate) Individual company or firm Consortium / joint ventures Partnership Consortium Other (please specify)																
4.	For applicants who are individual companies or firms, state the following: Name of Company or firm: Legal status: (e.g. incorporated private company, unincorporated business, etc.) Registered address: Principal place of business: Country of incorporation or domicile: Contact person: Contact person's title: Address, telephone and facsimile number of contact person:																

5.	<p>For applicants who are in Consortium / joint ventures, partnership, consortium or other association. State the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; border: none;">Names of members (lead member first):</td> <td style="width: 25%; border: none;">Legal status:</td> <td style="width: 25%; border: none;">Registered address and principal place of business:</td> <td style="width: 25%; border: none;">Country of Incorporation or Domicile.</td> </tr> </table> <p>(1)</p> <p>(2)</p> <p>(3)</p> <p>(etc)</p> <p>Contact person (from lead member)</p> <p>Contact person's title:</p> <p>Address, telephone, and facsimile number of contact person:</p>	Names of members (lead member first):	Legal status:	Registered address and principal place of business:	Country of Incorporation or Domicile.														
Names of members (lead member first):	Legal status:	Registered address and principal place of business:	Country of Incorporation or Domicile.																
5a.	<p>In case of mergers / acquisition within the past 5 Years, state the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 45%; border: none; vertical-align: top;"> Name of the Applicant (Each member in case of group) </td> <td style="width: 5%; border: none; text-align: center;"> </td> <td style="width: 50%; border: none; vertical-align: top;"> Name of the companies merged with or acquired by the applicant (Member in case of group) and the dates of merger / acquisition </td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%; text-align: center;">Name</td> <td style="width: 30%; text-align: center;">Date of Merger</td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> </table> </td> </tr> </table>	Name of the Applicant (Each member in case of group)		Name of the companies merged with or acquired by the applicant (Member in case of group) and the dates of merger / acquisition			<table style="width: 100%; border: none;"> <tr> <td style="width: 70%; text-align: center;">Name</td> <td style="width: 30%; text-align: center;">Date of Merger</td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> </table>	Name	Date of Merger	•		•		•		•		•	
Name of the Applicant (Each member in case of group)		Name of the companies merged with or acquired by the applicant (Member in case of group) and the dates of merger / acquisition																	
		<table style="width: 100%; border: none;"> <tr> <td style="width: 70%; text-align: center;">Name</td> <td style="width: 30%; text-align: center;">Date of Merger</td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> <tr> <td style="text-align: center;">•</td> <td></td> </tr> </table>	Name	Date of Merger	•		•		•		•		•						
Name	Date of Merger																		
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6.	<p>For the applicant, (in case of group, for each constituent member), state the following information:</p> <ul style="list-style-type: none"> • Date of incorporation of organisation. • Names and Titles of Directors or partners. • Has the company or firm ever failed to complete any work awarded to it in <div style="text-align: right; margin-top: 5px;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> </table> </div>	Y	N																
Y	N																		

	<p>last 10 years? If Yes furnish details</p> <ul style="list-style-type: none"> In case of mergers / acquisitions, has any of the merged / acquired Companies of the applicant (or any constituent member in case of Group), ever failed to complete any work awarded to it prior to its being merged / acquired in the last 5 years. <table border="1"><tr><td>Y</td><td>N</td></tr></table> <p>If yes give explanations.</p> <ul style="list-style-type: none"> Is the firm or company involved or financially interested in any other Business not directly associated with the area of work for which pre-qualification is sought? If yes, give details. <table border="1"><tr><td>Y</td><td>N</td></tr></table> Does the company or firm have an office or branch office in India? If so, provide address (es) <table border="1"><tr><td>Y</td><td>N</td></tr></table> (Applicants are to present this information on sheets which are to be clearly referenced as being in response to this Question 6.) 	Y	N	Y	N	Y	N
Y	N						
Y	N						
Y	N						
7.	<p>Does your company (in case of a group, each constituent member) combine the functions of a designer with those of manufacturer? Please elaborate. <table border="1"><tr><td>Y</td><td>N</td></tr></table></p> <p>.....</p>	Y	N				
Y	N						
8a.	<p>In case of International applicants, is an Indian partner experienced in an appropriate discipline, a member of the Group?</p> <ul style="list-style-type: none"> If Yes, provide list of disciplines / products. <table border="1"><tr><td>Y</td><td>N</td></tr></table> If not, give reasons. <p>.....</p>	Y	N				
Y	N						
8b.	<p>In case of international Applicants, has an associations been formed with an Indian partner(s) for transfer of technology for design, indigenous system assembly, installation maintenance and software customisation/ modification of systems.</p> <ul style="list-style-type: none"> If Yes, provide list of disciplines / products <table border="1"><tr><td>Y</td><td>N</td></tr></table> If not, give reasons for exclusion? <p>.....</p>	Y	N				
Y	N						

PRO-FORMA SECTION 2

<p>9.</p>	<p>Does Section 2 contain Power of Attorney which empowers the person or persons to sign and submit the letter of application on behalf of the applicant and, if applicable, the statements of participation on behalf of all Constituent members of the group?</p> <p>If not, give reasons.</p>	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N		
Y	N					
<p>10.</p>	<p>In the case of an incorporated applicant (or constituent members who are incorporated) does Section 2 contain copies, in English, of the Memorandum and Articles of Association or equivalent expression of corporate capacity?</p> <p>If not, give reasons.</p>	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N		
Y	N					
<p>11.</p>	<p>In the case of applications from groups, does Section 2 contain statements of participation in the form appearing in the Pre-qualification Brochure for each member?</p> <ul style="list-style-type: none"> • In the case of groups have you enclosed a MOU signed by each member that they will be jointly and severally responsible for the entire work? <p>If not, give reasons.</p>	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table> <table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N	Y	N
Y	N					
Y	N					
<p>12.</p>	<p>Have there been previous collaborations between constituent members?</p> <ul style="list-style-type: none"> • If yes, give details. 	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N		
Y	N					
<p>13.</p>	<p>In the case of applications from groups, does Section 2 contain copies of the MOU, group agreements or other documents establishing or intending to establish the formation of such a group?</p> <p>If not, give reasons.</p>	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N		
Y	N					

14.	<p>In the case of applications from groups, does Section 2 contain details of:</p> <ul style="list-style-type: none"> • Proposed equity participation by each constituent member for the proposed work? Y N • Areas of specialisation/responsibility of each member for the proposed work? Y N • Extent of participation (including deployment of major plant items and key personnel) by each member for the proposed work? Y N • Have you provided detailed information of the sub-systems of Lift & Escalator system to be designed and or supplied by each member / Sub-contractor where applicable? Y N • Have you provided details as to who will co-ordinate the transfer of technology for design, indigenous system assembly, installation, maintenance, software customisation/modifications of systems and how this to be achieved? Y N <p>If the answer to any question is no, please give reasons.</p> <p>.....</p> <p>.....</p>
-----	--

PRO-FORMA SECTION 3

15.	<p>State the number of years the applicant (or each constituent member) has been in business under the business name appearing in the answer to question 4 or 5 above.</p> <table border="1"> <thead> <tr> <th data-bbox="300 383 895 412">Name</th> <th data-bbox="906 383 1369 412">No. of years</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 418 895 448">(1)</td> <td data-bbox="906 418 1369 448">.....</td> </tr> <tr> <td data-bbox="300 454 895 483">(2)</td> <td data-bbox="906 454 1369 483">.....</td> </tr> <tr> <td data-bbox="300 490 895 519">(3)</td> <td data-bbox="906 490 1369 519">.....</td> </tr> <tr> <td data-bbox="300 526 895 546">etc.</td> <td></td> </tr> </tbody> </table>	Name	No. of years	(1)	(2)	(3)	etc.	
Name	No. of years										
(1)										
(2)										
(3)										
etc.											
16.	<p>State the number of years the applicant (or each constituent member) has been undertaking work similar in scope and nature to the works for which pre-qualification is sought.</p> <table border="1"> <thead> <tr> <th data-bbox="300 622 895 651">Name</th> <th data-bbox="906 622 1369 651">No. of years</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 658 895 687">(1)</td> <td data-bbox="906 658 1369 687">.....</td> </tr> <tr> <td data-bbox="300 694 895 723">(2)</td> <td data-bbox="906 694 1369 723">.....</td> </tr> <tr> <td data-bbox="300 730 895 759">(3)</td> <td data-bbox="906 730 1369 759">.....</td> </tr> <tr> <td data-bbox="300 766 895 790">etc.</td> <td></td> </tr> </tbody> </table>	Name	No. of years	(1)	(2)	(3)	etc.	
Name	No. of years										
(1)										
(2)										
(3)										
etc.											
17a	<p>Performance Record. Applicants should scrutinise the contract description contained in this Pre-qualification Brochure and compile a list showing their previous experience of similar contracts completed during the last ten years. The applicant must demonstrate experience in all areas covered by this Contract including detailed design, system assembly, installing, testing and commissioning of systems of sizes and technology comparable to those contemplated under this contract and also show capability of full integration of sub-systems with Lift & Escalator and other project elements. Further information and literature associated with system performance and reliability on previous contracts and relevant experience of the applicant and each constituent member shall be clearly referenced and enclosed in Section 3. In case of acquisitions / mergers, similar information should be supplied by the acquired / merged companies of the Applicant (or any constituent member in case of Group) in respect of works awarded to such acquired / merged companies prior to their acquisition / merger in the last 5 years. All the material should be clearly referenced as being in response to this Question 17a.</p> <ul style="list-style-type: none"> <li data-bbox="300 1272 1326 1339">• Do you (and each constituent member of the group) authorise KMRCL to make enquiries with any of the Clients listed by the Applicant? <table border="1" data-bbox="1217 1279 1326 1339"> <tr> <td>Y</td> <td>N</td> </tr> </table> <li data-bbox="300 1375 1326 1507">• Have you (and each constituent member of the group) provided details required in Annexure 1 and 1A for similar Contracts undertaken in the last ten years? (Use a separate sheet for each contract and include in the Questionnaire) <table border="1" data-bbox="1217 1391 1326 1451"> <tr> <td>Y</td> <td>N</td> </tr> </table> <li data-bbox="300 1556 1326 1653">• Have details required in Annex. 1 and Annex. 1A been given in respect of mergers / acquisitions for a period of 10 years prior to their merger / acquisition? <table border="1" data-bbox="1217 1570 1326 1630"> <tr> <td>Y</td> <td>N</td> </tr> </table> <li data-bbox="300 1702 1326 1845">• Have you carried out Comprehensive Maintenance / Maintenance without Spares of equipments beyond DLP? If the answer is No, give explanations. (Use a separate sheets for each Contract and include in the Questionnaire) <table border="1" data-bbox="1217 1720 1326 1780"> <tr> <td>Y</td> <td>N</td> </tr> </table> 	Y	N	Y	N	Y	N	Y	N		
Y	N										
Y	N										
Y	N										
Y	N										

	<ul style="list-style-type: none"> Have details required in Annex. 1 and Annex. 1A been given in respect of sub-contractors for the last 10 years? If the answer is No, give explanations. (Use a separate sheet for each Contract and include in the Questionnaire) <div style="text-align: right; border: 1px solid black; width: 60px; float: right; margin-left: 10px;"> <table style="border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">Y</td> <td style="border: 1px solid black; width: 20px; text-align: center;">N</td> </tr> </table> </div>			Y	N
Y	N				
17b.	<p>Work in Hand. Applicant or each constituent member should indicate, in the form below, Details for each similar contract / commitment which is not yet completed or for which letter of intent or acceptance has been received.</p> <p>(Applicants are to present this information in the format shown below but on sheets which are to be included in the Questionnaire).</p> <p>Have you (and each constituent member of the group) provided details required in Annexure 2 and 2A?</p> <div style="text-align: right; border: 1px solid black; width: 60px; float: right; margin-left: 10px;"> <table style="border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">Y</td> <td style="border: 1px solid black; width: 20px; text-align: center;">N</td> </tr> </table> </div> <p>(Use a separate sheet for each Contract and include in the Questionnaire)</p> <hr/>			Y	N
Y	N				
17c.	<p>Annual financial turnover of the applicant / members in case of group, Year-wise Ending 31.03.2010 for the last 5 years.</p> <p>Annual financial Turnover for foreign currency in US \$ and Rs. for Indian currency (in terms of rupee equivalent adjusted to 31.03.10 by assuming 5% escalation for Indian Rupee and 2% for foreign currency per year) pertaining to the Company.</p> <p>Turnover of each member of the Consortium will be considered. This particular Annexure shall be extracted from Annual Report and certified by the Chartered Accountants.</p>				
	Name of the applicant (Members in case of group)				
	Year	Foreign Currency ()	INR		
			Foreign Currency + INR (Escalated cost)		
	Total (Including Escalation)				

17d.	Has the applicant executed
	<p>(a) Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports. <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>(b) Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports. <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>(c) Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/or major Airports in the last 10 years. <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>(d) Design, Manufacture, Supply and Installation of semi-outdoor Escalator works completed for METRO stations and/or major Airports in the last 10 years. <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>(e) Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports in last 10 years <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>(f) Comprehensive Maintenance / Maintenance without spares after Defects Liability Period in Lifts / Escalators. <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>If yes, give details (in case of a group, this information is to be given for each member.)</p> <p>Give reference of the work as submitted in Annexure 1 in reply to Question 17(a) and shall also give the reference of submitted project-wise all details such as supported completion certificate from the client c/w supply and commissioning dates, Station details, DLP period etc.</p>

ANNEXURE 1

(Use separate sheets for Lift & Escalators (L & E) System - Attach separate sheets to give details of Design, Manufacture, Supply, Installation, Commissioning In Use and For Reliability in %)

Name of the Applicant / Member:

Project Title:	Location:		
Scope:	Address:		
Client::			
Client's Representative:	Tel.:		
Type of Contract: Lift & Escalator System			
<p>1. Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports.</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>2. Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>3. Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/or major Airports in the last 10 years.</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>4. Design, Manufacture, Supply and Installation semi-outdoor Escalator works completed for METRO stations and/or major Airports in the last 10 year</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>5. Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports in last 10 years</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>6. Maintenance Experience beyond defects liability period Comprehensive Maintenance / Maintenance without spares in Lifts / Escalators</p>			
Please ✓ whichever is applicable			
<p>Was an Indian Government standard form of contract used?</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>If Yes, ✓ give details:</p>			
<p>Was an international standard form of contract used?</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
<p>If Yes give details:</p>			
<p>Was the work carried alone or as a member of the group?</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		
If a group, indicate percentage participation and area/s of participation.			
<p>Date, work commenced</p>	<p>Date, work was completed</p>		
<p>Was the date of completion given in the original contract extended?</p>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N		

If so, how much and why?

Were any penalties imposed
For delay?

Y	N
---	---

Did the applicant go in
for Arbitration?

If yes, give details.

Y	N
---	---

If yes, give details. Each
constituent member should
indicate in the
Form in Annexure-1B.

Y	N
---	---

Were any penalties imposed for
reasons other than delay?
If yes, give details

Did the applicant go in for
Litigation?

If yes, give details. Each
constituent member should
indicate in the
Form in Annexure-1B.

Y	N
---	---

Contract Value as on 31.03.10 prices in Rupee equivalent, assuming 5% inflation for Indian Rupees and 2% for foreign currency portion every year. 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 included and the remaining done by the other members of the Group excluded.

Details of work undertaken:

Were Quality Assurance obligations required in the contract?

Y	N
---	---

If yes, whether they were fulfilled?

Y	N
---	---

Were specified performance requirements of the systems achieved?
If yes, please give details of reliability in terms of availability of the
systems achieved during warranty period or three years from the date of
commissioning whichever is later.

Y	N
---	---

If No, give reasons

Has the applicant (or any member of a group) been blacklisted by a
client?

Y	N
---	---

If Yes, Why?

Was there any complaint received from the client relating to the performance of the Systems? If yes, give details.	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		
Was the warranty clause invoked by the client? If yes, give details.	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		
Did the arrangements/facilities exist to rectify defects during warranty period? If yes, give details including the location of facilities.	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		
Was technology transfer a part of the contract? If Yes, what was the time frame?	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		
Was the technology transfer achieved within the time frame as contracted? If No, give reasons thereof.	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		
Project Description including transfer of technology for design indigenous system assembly, installation, maintenance and software customisation/ modification details. Briefly indicate plan of action in the direction of progressive transfer to India.	<table border="1"><tr><td>Y</td><td>N</td></tr></table>	Y	N
Y	N		

ANNEXURE 1A
SUMMARY OF INFORMATION PROVIDED IN ANNEXURE-1

Name of applicant (each member in case of group)	Total number of contracts completed in last 10 years	Number of system designed of each type: (a) Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports (b) Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports (c) Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/ or major Airports in last 10 years. (d) Design, Manufacture, Supply and Installation of semi-outdoor Escalator works completed for METRO stations and/or major Airports in last 10 years. (e) Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports in last 10 years (f) Maintenance Experience beyond defects liability period Comprehensive Maintenance / Maintenance without spares in Lifts / Escalators.	Number of contracts for which Contractor went for Litigation / Arbitration* (Further details in Annexure – 1B)		Number of Contracts delayed i.e., completed beyond the original date of completion	Total value of contracts in 10 years (in rupees) prices as on 31.3.10 assuming 5% inflation for Indian rupee portion and 2% escalation on foreign currency portion.
			Litigation	Arbitration		
<p>* Note: Applicant or each constituent member should indicate, in the form in Annexure – 1B, details for each contracts for which they went for Litigation / Arbitration. Separate sheet for each case be submitted.</p>						

Annexure – 1B

Litigation History

Name of Applicant or partner of a Consortium / joint ventures

Applicants, including each of the partners of a Consortium / joint ventures, should provide information on any history of litigation or arbitration resulting from contracts executed in the last 10 years. A separate sheet should be used for each partner of a Consortium / joint ventures. *(Attach separate sheets to give details of Supply, Installation, Commissioning, In Use and Reliability in %)*

Year	Award FOR or AGAINST Applicant	Name of client, cause of litigation, and matter in dispute	Disputed amount (current value, US\$ equivalent)

ANNEXURE 2

Name of the applicant or member of constituent Group				
Applicants (each member of the Group) should provide information on their current commitments or all contracts that have been awarded or for which a letter of intent or acceptance has been received or for contracts approaching completion but for which a completion certificate is yet to be issued. (Attach separate sheets to give details of Supply, Installation, Commissioning, In Use and Reliability in %)				
Particulars of Contract	Name of Client with telephone number	Type of System	Value of balance work yet to be done in Rupee equivalent as on 31.03.10 (Assume inflation as given in Annexure 1)	Estimated completion Date
		<p>(a) Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports</p> <p>(b) Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports</p> <p>(c) Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/ or major Airports in last 10 years.</p> <p>(d) Design, Manufacture, Supply and Installation of semi-outdoor Escalator works completed for METRO stations and/or major Airports in last 10 years.</p> <p>(e) Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports</p> <p>(f) Maintenance Experience beyond defects liability period Comprehensive Maintenance / Maintenance without spares in Lifts / Escalators.</p>		
NOTE:				
List only 10 Largest similar works				

ANNEXURE 2A

Summary of Information for Works In Hand

(Attach separate sheets to give details of Supply, Installation, Commissioning, In Use and Reliability in %)

Name of applicant (each member in case of group)	Total number of contracts completed in last 10 years	Type and number of system designed of each type: (a) Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports (b) Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports (c) Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/ or major Airports in last 10 years. (d) Design, Manufacture, Supply and Installation of semi-outdoor Escalator works completed for METRO stations and/or major Airports in last 10 years. (e) Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports in last 10 years. (f) Maintenance Experience beyond defects liability period Comprehensive Maintenance / Maintenance without spares in Lifts / Escalators.	Number for which contractor has gone in for Litigation / Arbitration* (Further details in Annexure – 2B)		Number of current Contracts in which date of completion given in the original has already burst	Total value of balance works yet to be done in Rupee equivalent as on 31.03.10 (Assume inflation as given in Annexure 1)
			Litigation	Arbitration		
	* Note: Applicant or each constituent member should indicate, in the form in Annexure – 2B, details for each contracts for which they went for Litigation / Arbitration. Separate sheet for each case be submitted.					
NOTE:						
This information should be for all the works in progress including those listed in Annexure 2.						

APPLICATION FORM (8)

Annexure – 2B

Litigation History

Name of Applicant or partner of a Consortium / joint ventures

Applicants, including each of the partners of a Consortium / joint ventures, should provide information on any history of litigation or arbitration resulting from contracts currently under execution. A separate sheet should be used for each partner of a Consortium / joint ventures.

(Attach separate sheets to give details of Supply, Installation, Commissioning, In Use and Reliability in %)

Year	Award FOR or AGAINST Applicant	Name of client, cause of litigation, and matter in dispute	Disputed amount (current value, US\$ equivalent)

Note:- This information should be for all the works in progress including those listed in Annexure – 2.

PRO-FORMA SECTION 4

18	Staff. Applicants (and each constituent member of the Group) should indicate the number of staff employed (total and at specified offices). Specify number of each member's professional, technical, personnel at each location. Indicate how many staff professional and technical personnel are regular employees of more than six months of the applicant Name of the applicant (Member in case of Group)		
	Location	Discipline	Managerial / Professional Technical and Engineers (including those deployed in design work)
	1..... 2..... 3..... 4.....	(a) Supply and Installation of Lift works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports	
		(b) Supply and Installation of semi-outdoor Escalator works <u>in use</u> for minimum 5 years for METRO stations and/or major Airports	
	TOTAL:-	(c) Design, Manufacture, Supply and Installation of Lift works completed for METRO stations and/ or major Airports in last 10 years.	
	Discipline	(d) Design, Manufacture, Supply and Installation of semi-outdoor Escalator works completed for METRO stations and/or major Airports in last 10 years.	
		(e) Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service in METRO stations and/or major Airports in last 10 years	
		(f) Maintenance Experience beyond defects liability period Comprehensive Maintenance / Maintenance without spares in Lifts / Escalators.	

(Attach separate sheets to give details of Supply, Installation, Commissioning, In Use and Reliability in %)

19a.	<p>Provide the following information for the applicant (or in case of a group each member) in Section 4, <u>separately for each system / sub-system.</u> The minimum experience of each personnel to be deployed should be minimum three years in the related field. The Applicant must have suitably qualified personnel to fill the following positions¹⁹. The applicant will supply information on a prime candidate and on an alternate for each position of deployment ; both people should meet the experience requirements specified below:</p> <p>Name of the applicant / member in case of Group</p>										
	<table border="1"> <thead> <tr> <th rowspan="2">Discipline</th> <th rowspan="2">Total Numbers Available</th> <th rowspan="2">Number Available for proposed Contract</th> <th colspan="3">Academic Qualifications</th> <th rowspan="2">No. of years of experience in discipline</th> </tr> <tr> <th>PGs</th> <th>Graduates</th> <th>Others</th> </tr> </thead> </table>	Discipline	Total Numbers Available	Number Available for proposed Contract	Academic Qualifications			No. of years of experience in discipline	PGs	Graduates	Others
Discipline	Total Numbers Available				Number Available for proposed Contract	Academic Qualifications			No. of years of experience in discipline		
		PGs	Graduates	Others							
	<table border="1"> <tbody> <tr> <td data-bbox="272 712 571 1391"> Team Leader (Engineer) Project Management Expert Design Engineer Safety Officer Procurement Specialist Electrical Engineer Mechanical Engineer Fire Engineer Building Management Expert Quality Control Expert Control system specialist Testing Engineer (Mechanical) Testing Engineer (Electrical) Testing Engineer (Fire) Others (give details) (CADD operator, Finance Expert etc.) </td> <td data-bbox="571 712 715 1391"></td> <td data-bbox="715 712 879 1391"></td> <td data-bbox="879 712 963 1391"></td> <td data-bbox="963 712 1107 1391"></td> <td data-bbox="1107 712 1222 1391"></td> <td data-bbox="1222 712 1394 1391"></td> </tr> </tbody> </table>	Team Leader (Engineer) Project Management Expert Design Engineer Safety Officer Procurement Specialist Electrical Engineer Mechanical Engineer Fire Engineer Building Management Expert Quality Control Expert Control system specialist Testing Engineer (Mechanical) Testing Engineer (Electrical) Testing Engineer (Fire) Others (give details) (CADD operator, Finance Expert etc.)									
Team Leader (Engineer) Project Management Expert Design Engineer Safety Officer Procurement Specialist Electrical Engineer Mechanical Engineer Fire Engineer Building Management Expert Quality Control Expert Control system specialist Testing Engineer (Mechanical) Testing Engineer (Electrical) Testing Engineer (Fire) Others (give details) (CADD operator, Finance Expert etc.)											
19b.	Which member of the Applicant / group / consortium will provide the Project Leader? Provide the academic and professional qualifications and experience of the proposed Project Leader.										
20.	Provide in Section 4 the following for both Prime and Alternate Candidate: Relevant CV's of the Key Design/Development Engineers and Specialists of all relevant disciplines from each group member indicating their qualification, length of service, previous experience of work similar in nature to the works for which pre-qualification is sought and their involvement in those contracts. This should be given separately for subsystems and number limited to 5 for each system/sub-system.										
21.	Provide in Section 4 the following : <ul style="list-style-type: none"> • Details of your current management organisation as the applicant or, if a group, of each constituent member. • A proposed management organisation for this contract along with number of staff, their discipline with their CVs. 										

¹⁹ List only key management and specialist positions. Do not include all principals, head office personnel who are not key to the project, and other non-specialist personnel.

PRO-FORMA SECTION 5

22.	Include in Section 5 details of ownership and control of applicant, or if a group, of each constituent member.
23.	<p data-bbox="300 450 1182 589">Have you in Section 5 provided documents, including Banking Reference, to demonstrate that you have access to, or have available, liquid assets, lines of credit and other financial means sufficient to meet cash flow of INR 63 Million for a period of 3 months for the proposed contract net of your commitments for other contracts.</p> <p data-bbox="300 633 1023 701">Do you authorise KMRCL to make enquiries with any of the Banks you listed in this application?</p> <p data-bbox="300 779 1182 880">Have you provided Annual Reports of the Applicant (and of each constituent member in the case of a group) for each of the last five years and also information given in Annexure 3.</p> <p data-bbox="300 925 1182 992">Has the Applicant / Joint venture/ Group / Consortium has suffered bankruptcy or has been insolvent in the last 5 years</p> <p data-bbox="300 1037 1182 1104">In case of Indian company participating as a member of the Consortium, Income Tax certificate for the last 3 years, be furnished.</p>

ANNEXURE -3

Sl. No	Financial Information in Rupee equivalent	Actual for Previous five years ending 2009-10															Projection for the current financial year 2010-11		
		Financial Year 2005-06			Financial Year 2006-07			Financial Year 2007-08			Financial Year 2008-09			Financial Year 2009-10			In Respective currencies	Exchange rate	Rupee equivalent
		In Respective currencies	Exchange rate	Rupee equivalent	In respective currencies	Exchange rate	Rupee equivalent	In Respective currencies	Exchange rate	Rupee equivalent	In Respective currencies	Exchange rate	Rupee equivalent	In Respective currencies	Exchange rate	Rupee equivalent			
1.	Total Assets																		
2.	Current Assets																		
3.	Loans & Advances																		
4.	Total Liabilities																		
5.	Current Liabilities																		
6.	Provision																		

ANNEXURE -3

7.	Profit Before Interest and Tax																		
8.	Profit before Tax but after interest																		
9.	Profit after Tax																		
10.	Net worth **																		
11.	Total Debt (including Current Liabilities) /Total Equity (including Preference capital)																		

** Net worth is paid up Capital plus Reserves & Surplus less Intangible assets.

This information should be submitted by all applicants and individually by all members in case of JV / Consortium, extracted through Audited Balance sheet.

(The information should be duly certified and signed by the qualified Chartered Accountant)

PRO-FORMA SECTION 6

<p>24.</p>	<p>Do you intend, in case of being invited to tender, to engage the services of an independent professional designer for the purposes of undertaking the Detailed Design of the system or any of the sub-systems?</p> <p>If yes, provide the name or names of potential professional designers their capability, resources and the extent of their participation.</p> <p>Further details and literature should be enclosed in Section 6, clearly referenced as being in response to this Question 24.</p>	<table border="1"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N			
<p>25.</p>	<p>Do you intend, in case of being invited to tender, to subcontract with other contractors any part of the work?</p> <p>If yes, in Section 6 provide the name or names of the subcontractors, their experience, resources and the extent of their participation, clearly referenced as being in response to this Question 25.</p> <p>Provide details of all sub-systems that will be designed in-house.</p> <p>Provide information on systems that will be designed by the applicant.</p>	<table border="1"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> </table>	Y	N
Y	N			
<p>25a.</p>	<p>Applicants (each member in case of group) are to include in Section 6 information relating to number of works of Detailed Design, Detailed Engineering of the system or any of the sub-systems of Lift & Escalator system as well as testing facilities for major equipment. The applicant must also demonstrate that, based on known commitments, the availability of staff and resources (including design staff) shall be adequate such that the contract can be completed in time.</p> <ul style="list-style-type: none"> • Provide Number, qualification and experience in similar projects of the Project staff proposed to be deputed for this contract. List out the resources and the facilities available to complete design verification and detail engineering works as per the contract requirement. • Provide details of proposed approach for the Design, Manufacture, Supply, Delivery and Storage at Site, testing & Commissioning and Demonstration of Performance of the Equipment / System of major equipment for the Lift & Escalator System works. <p>Provide details of the testing and commissioning approach and the facilities of major testing equipments available.</p>			

<p>26a.</p>	<p>Applicants (each member in case of Group) are to include in Section 6 information relating to the availability of major facilities for this work.</p> <p>Applicants or each constituent member thereof should provide in Section 6 information on the number, location facilities and Offices that they own or operate that they would use for this contract.</p> <p>Provide similar information facilities available in India.</p> <p>Provide information on the test facilities used for proving the performance and quality of your systems.</p> <p>Provide the number and specifications of CADD Plotters and workstations available for the designs for the systems and sub-systems, the computing power and programmes available for the contract.</p> <p>Provide information on the equipment capabilities as per Annexure – 4. The applicant must demonstrate that based on known commitments, key items of equipment will be available in full working order for the project in such number that the contract can be completed in time.</p> <p>Provide information on the test facilities used for proving the performance and quality of your systems.</p>				
<p>26b.</p>	<p>Quality Assurance Programme:</p> <p>Do Applicants or each constituent member currently maintain an in-house Quality Assurance programme? If yes, give details.</p> <table border="1" data-bbox="1187 1021 1294 1077"> <tr> <td>Y</td> <td>N</td> </tr> </table> <p>Have you (or each constituent member in the case of a group) had any of your recent projects ISO 9000 / 9001 / 9002 certified? If yes, give details.</p> <table border="1" data-bbox="1187 1218 1294 1274"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N	Y	N
Y	N				
Y	N				
<p>26c.</p>	<p>Do you (each constituent member) have cost control mechanism in your organisation.</p> <table border="1" data-bbox="1187 1357 1294 1413"> <tr> <td>Y</td> <td>N</td> </tr> </table>	Y	N		
Y	N				

VERIFICATION STATEMENT

27.	<p>I confirm and declare that no agent, middleman or any intermediary has been, or will be, engaged by me to provide any services, or any other item or work related to the award and performance of this Contract. I further confirm and declare that no agency commission or any payment which may be construed as an agency commission has been, or will be, paid by me and that the tender price will not include any such amount.</p> <p>Signed :</p> <p>(to be signed by applicant and each member of the group)</p> <p>Date:</p>
28.	<p>Applicants are to verify that the information contained in this completed Questionnaire, any annex thereto and all supporting and explanatory information is, to their best knowledge and belief, truthful and exact.</p> <p>By virtue of my signature below, I confirm to my best knowledge and belief the information contained in this questionnaire and sections, any annex thereto and all supporting and explanatory information is truthful and exact.</p> <p>Signed:</p> <p>(Same signatory as on letter of application)</p> <p>Date:</p>
29.	<p>Applicants are to verify that the Tender for the Contract in their own name and at the same time as a part of JV, Partnership or Consortium has not been submitted.</p> <p>By virtue of my signature below, I confirm to my best knowledge and belief the information contained in this questionnaire is truthful and exact.</p> <p>Signed:</p> <p>(to be signed by applicant and each member of the group)</p> <p>Date:</p>

The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed Name	Signed Name
For and on behalf of (name of Applicant or lead partner of a Consortium / joint ventures)	For and on behalf of (name of partner)

Signed Name	Signed Name
For and on behalf of (name of partner)	For and on behalf of (name of partner)
Signed Name	Signed Name
For and on behalf of (name of partner)	For and on behalf of (name of partner)

Annexure – 4**Equipment Capabilities**

Name of Applicant

The Applicant shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for each and all items of equipment required for execution of work under the contract.

The Equipments required are:-

1. Insulation Resistance Tester
2. DG Set
3. Distribution Board
4. Welding Set
5. Brazing Kit.
6. Mounting Trolley
7. Gas Leakage Detector

Item of equipment

Equipment Information	1.Name of manufacturer	2.Model and power rating
	3.Capacity	4.Year of manufacture
Current status	5.Current location	
	6.Details of current commitments	
Source	7.Indicate source of the equipment Owned Rented Leased Specially manufactured	

Omit the following information for equipment owned by the Applicant or partner
--

Owner	8.Name of owner	
	9. Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental/lease/manufacture agreements specific to the Project	



KOLKATA METRO RAIL CORPORATION LTD
HRBC Office Complex, (4th & 5th Floor)
Munshi Premchand Sarani
Kolkata – 700 021, India
Phone : 22134344, Website: www.kmrc.in

**PRE-QUALIFICATION FOR THE DETAILED DESIGN, DETAIL ENGINEERING,
MANUFACTURE, SUPPLY, DELIVERY AND STORAGE AT SITE, LAYING,
INSTALLATION, TESTING AND COMMISSIONING, TRAINING OF
PERSONNEL, DEMONSTRATION OF PERFORMANCE OF SYSTEM /
EQUIPMENT OF LIFTS AND ESCALATORS SYSTEM (L & E) OF
UNDERGROUND AND ELEVATED SYSTEM OF
KOLKATA METRO EAST-WEST LINE PROJECT
(TENDER NO.5 PQ-UG/EL - L&E)
(Revision 1)**

PRE-QUALIFICATION EVALUATION CRITERIA

August 2011

(A) INITIAL FILTER OF APPLICANTS – CHECKLIST

Code of Applicant:

No.	Criteria	Yes	No
1	Has the Applicant abandoned any work in the last ten years?		
1A	Has any of the merged / acquired companies of the applicant ever failed to complete any work awarded to it for a period of 5 years prior to its being merged / acquired.		
2	Has the Applicant involved in frequent litigations in the last ten years?		
3	Has the Applicant delayed any work in the last ten years by more than 75% of the original period of completion due to his default?		
4	Has the Applicant delayed by more than 50% of original period of completion in more than 20% of the number of works in the last ten years due to his default?		
5	Has the Applicant suffered bankruptcy / insolvency in the last five years?		
6	Has the Applicant been blacklisted by any organization?		
7	Has the Applicant been penalized by poor quality of work in the last ten years?		
8	Has any misleading information been given in the application?		
9	Is the Applicant financially sound to perform the work as per criteria T ₁ and T ₂ ?		
9 _A	Is the Net Worth of the applicant positive?		
10 _A	Has the applicant certified that no agent / middleman has been or will be engaged or any agency commission been or will be paid?		
10 _B	Do the documents submitted by the applicant reveal that agency commission has been or will be paid?		
11	Has the Applicant submitted duly filled verification statement page no. – 34 of 35		

- Notes:**
1. A “YES” answer to question 1 to 8 and 1_A and 10_B will disqualify the Applicant
 2. A “NO” answer to question 9, 9_A, 10_A, 11 will disqualify the Applicant.
 3. In case of Joint Ventures/Group/Consortium, each individual Member must qualify in the Initial Filter of Applicants – Check List.

(B) Assessment Scoring

This is based on the weightage to be given to each Topic relative to the whole of the pre-qualification topics, and the points scored by the Applicant against each topic.

Assessment Scoring

TOPIC NO.	ASSESSMENT TOPIC	MAX. POINTS	WEIGHTAGE	MAX. SCORE
I	Financial Standing			
T1	Liquidity and Banking Reference			PASS/FAIL
T2	Profitability			
T2A	Networth			
T3	Average Annual Turnover			
	Total I			PASS/ FAIL
II	Technical and Organizational Capability			
T4	Academic Qualifications	4	5	20
T5	Total number of staff that would be made available for the project	4	3	12
T6	Experience of Key staff	4	8	32
T7	Management Organization	4	2	8
T8	Quality Assurance	4	2	8
	Total II		20	80
III	Experience Record - General			
T9	Length of time in Business	4	2	8
T10	No. of Supply and Installation, Testing and Commissioning of Lift and Escalator Installation works in use for minimum 5 years for METRO stations and/or major Airport.	4	5	20
T11	No. of Design, Manufacture, Supply, Installation, Testing, commissioning of similar Lift & Escalator Installation works completed for METRO stations and/ or major Airports in last 10 years	4	5	20
T12	No. of Performance of the Lift & Escalator equipment and system in terms of reliability in % while in service for METRO stations and major Airports in last 10 years.	4	3	12
T13	No. of Comprehensive Maintenance / Maintenance without Spares of similar work of Lift & Escalators after DLP period	4	3	12
	Total III		18	72
	Grand Total			152

Note: In case of Joint Ventures/ Group/Consortium the evaluation against the individual eligibility criteria will be done in totality, Except in case of financial criteria T1,T2,T2A and T3 where individual member has to qualify depending upon their participation in the tender (Lead member or member).

Basis for Weightage

The weightage has been determined by the importance of the topic in relation to the project.

Basis for Awarding Points

The purpose of the points system is to be able to put the Applicants into a “pecking order” of capability. Therefore, whilst there may be some subjective consideration as to what constitutes the award of points, as much as possible criteria for awarding points has been based on the response of the Applicant to the Questionnaire.

The basis for the award of points is:

T₁ It is necessary that the firm can withstand the Cash Flow that the contract will require until payment received from Employer. Liquidity therefore becomes an important consideration. This can be seen from the balance sheets and from the banking reference if required. Net current assets { (Current assets + loans & advances) – (current liabilities + provision) } for the last financial year (Balance Sheets / Annex. 3 of Pre-qualification documents), documents including current documents banking reference if required, should show that the applicant has access to or has available liquid assets, lines of credit, if any, and other financial means to meet the **Liquidity / cash flow of Rs. 63 Million** for a period of 3 months for this contract, net of applicant's commitments for other Contracts.

Adequate liquidity	≥ INR. 63 Million	=	Pass
Inadequate Liquidity	< INR. 63 Million	=	Fail

T₂ The same condition applies as in T₁, therefore from the Annual statements:

Profit before tax but after interest, 3 positive out of five years	=	Pass
Other wise	=	Fail

T_{2A} Networth as item 10 of Annexure 3 of pre-qualification document.

≥ INR. 158 Million	=	Pass
< INR. 158 Million	=	Fail

T₃ Average Annual Turn-over for the last five years (Q.17c)

≥ INR. 227 Million	=	Pass
< INR. 227 Million	=	Fail

T₄ Academic Qualifications of key staff limited to say 30 in number to be made available for the contract to cover various disciplines mentioned in PQ Document:

100% Graduates / Post Graduates	=	4 points
>75% of key staff Graduates / Post Graduates	=	3 points
50% to 75% of key staff Graduates/ Post Graduates	=	2 point
<50% of key staff Graduates / Post Graduates	=	0 points

The areas/disciplines where key staffs are to be evaluated:

S.No:	Position	Nos.
1.	Team Leader	1
2.	Project Management Expert	1
3.	Design Engineer	1
4.	Safety Officer	1

5.	Procurement Specialist	1
6.	Electrical Engineer	4
7.	Mechanical Engineer	4
8.	Fire Protection Engineer	4
9.	Plumbing Engineer	4
10.	Control System Specialist	1
11.	Building Management Expert	1
12.	Quality Control Expert	1
13.	Testing Engineer (Mechanical)	2
14.	Testing Engineer (Electrical)	2
14.	Testing Engineer (Fire Protection)	2
15.	Others (CADD operator, Finance Expert etc.)	3

T₅ Total Engineering / Technical staff to be made available for the project as obtained from answer to PQ Questionnaire will determine whether the Applicant can complete the work in time:

≥ 30	=	4 points
≥ 20 < 30	=	3 points
≥ 15 < 20	=	2 points
< 15	=	0 points

T₆ Experience of key staff (limited to say 30 in numbers) available for the services to be performed averaged for 30:

> 7 years	=	4 points
> 5 but upto 7 years	=	3 points
≥ 3 but upto 5 years	=	2 point
< 3 years	=	0 points

T₇ The proposed Organization must be divided into basic functions (3 disciplines) like Electrical, & Mechanical (Lift & Escalator related) and strong overall management control. This is to a certain amount subjective, but has only low weightage. (refer Q. 21):

Excellent	=	4 points (All disciplines represented adequately)
Good	=	3 points (One discipline not represented adequately)
Average	=	2 point (Two disciplines not represented adequately)
Poor	=	0 points

T₈ Quality Assurance Programme in place. This is a major requirement and can only be assessed as existing or non-existing:

Possesses QA Programme certified by ISO	=	4 points
Follows internal QA Programme & applied for ISO Certification	=	3 points
Follows internal QA Programme	=	2 points
Does not have QA Programme	=	0 point

- T₉ The number of years for which the applicant has been undertaking works similar in scope and nature (Averaged) in case of Consortium):
- | | | |
|--------------------|---|----------|
| > 7 years | = | 4 points |
| > 5 years ≤ 7years | = | 3 points |
| > 3 years ≤ 5years | = | 2 points |
| Otherwise | = | 0 point |
- T₁₀ **No. of Supply, Installation, Testing, commissioning of similar Lift and Escalator Installation works in use for minimum 5 years for METRO stations and/or major Airports**
(Average of (a) and (b)) (Q.17d):
- | | | |
|---------------------------------|---|----------|
| a) > 10 Lifts | = | 4 points |
| ≥ 7 Lifts < 10 Lifts | = | 3 points |
| ≥ 5 Lifts < 7 Lifts | = | 2 point |
| < 5 Lifts | = | 0 point |
| b) > 25 Escalators | = | 4 points |
| ≥ 20 Escalators < 25 Escalators | = | 3 points |
| ≥ 15 Escalators < 20 Escalators | = | 2 point |
| < 15 Escalators | = | 0 point |
- T₁₁ No. of Design, Manufacture, Supply, Installation, Testing, commissioning of similar Lift and Escalator Installation works each completed for METRO stations and major Airports, completed during last 10 years **(Average of (a) and (b))** (Q.17d):
- | | | |
|---------------------------------|---|----------|
| a) > 25 Lifts | = | 4 points |
| ≥ 20 Lifts < 25 Lifts | = | 3 points |
| ≥ 14 Lifts < 20 Lifts | = | 2 point |
| < 14 Lifts | = | 0 point |
| b) > 40 Escalators | = | 4 points |
| ≥ 35 Escalators < 40 Escalators | = | 3 points |
| ≥ 30 Escalators < 35 Escalators | = | 2 point |
| < 30 Escalators | = | 0 point |
- T₁₂ No. of Performance of the Lifts & Escalators equipment and system in terms of reliability in % while in service for METRO stations and/or major Airports in last 10 years. (refer Q.17d):
- | | | |
|---|---|----------|
| ≥ Reliability less than 99.5 % | = | 4 points |
| ≥ Reliability less than 99 % < Reliability less than 99.5 % | = | 3 points |
| ≥ Reliability less than 98.5 % < Reliability less than 99 % | = | 2 point |
| < Reliability less than 98.5 % | = | 0 point |
| | = | 0 point |

T₁₃ No. of Comprehensive Maintenance / Maintenance without Spares of similar works of Lift & Escalators after DLP period for a minimum of at least one year (ref: Q. 17a)

≥ 3 works	=	4 points
= 2 works	=	3 points
= 1 work	=	2 point
= 0 work	=	0 point

(C) Summary of Evaluation Criteria

Applicants must PASS all Evaluation criteria below i.e. a, b, c & d

- (a) Pass in Initial filter check – list.
- (b) Pass in Financial Criteria T1, T2, T2A and T3
- (c) 50% marks-in Topic – II and III each - Pass
- (d) 60% marks- in overall (Topic – II + III). - Pass

All criteria shall be Pass/Fail Criteria. The Employer reserves the right to waive minor deviations if they do not materially affect the capability of an applicant/JV/Consortium to perform the contract.

. The Employer reserves the right to waive minor deviations if they do not materially affect the capability of an applicant/JV/Consortium to perform the contract.