

**INVITATION FOR PRE - QUALIFICATION**

## INVITATION FOR PRE-QUALIFICATION

Date: **January 11th, 2010**

**Contract No. AEP-01**

1. **Chennai Metro Rail Limited (CMRL)** has received an ODA Loan from Japan International Cooperation Agency hereinafter referred to as the JICA, in the amount of JPY 21,751,000,000 on November 21, 2008 towards the part cost of Chennai Metro Rail Project, Phase 1, in Chennai; this loan arrangement is the first tranche of JICA total loan, which is about 60% of the total estimated cost of JPY 220 Billion, in financing Chennai Metro Rail Project Phase I. CMRL intends to apply a portion of the proceeds of the total loan to payments under the contract for which this Invitation for Pre-qualification is issued.

Disbursement of the ODA Loan by JICA will be subjected, in all respects, to the terms and conditions of the Loan Agreement, including the disbursement procedures and the Guidelines for Procurement under JBIC ODA Loans except that "JAPAN BANK FOR INTERNATIONAL COOPERATION", "JBIC", the "BANK", "the Section (1), Paragraph 2, Article 23 of THE JAPAN BANK FOR INTERNATIONAL COOPERATION LAW" as referred in the Guideline shall be substituted by "THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY", "JICA", "JICA" and "Clause (a), Item (ii), Paragraph 1, Article 13 of the ACT OF THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY", respectively.

No party other than CMRL shall derive any rights from the Loan Agreement or have any claim to Loan proceeds. The above Loan Agreement will cover only a part of the project cost. As for the remaining portion, CMRL will take appropriate measures for finance.

2. JICA requires that bidders and contractors, as well as **Chennai Metro Rail Limited (CMRL)**, under contracts funded with JICA ODA Loans and other

Japanese ODA, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, JICA;

- (a) will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (b) will recognize a contractor as ineligible, for a period determined by JICA, to be awarded a contract funded with JICA ODA Loans if it at any times determines that the contractor has engaged in corrupt or fraudulent practices in competing for, or in executing, another contract funded with JICA ODA Loans or other Japanese ODA.

3. The **Chennai Metro Rail Limited** (CMRL), hereinafter “the Employer,” intends to pre-qualify contractors for the following contract under this project:

**Chennai Metro Rail Project Phase 1, Contract AEP-01 Power Supply System and Overhead Equipment Design and Build.**

The scope of work comprises design, erection, manufacture / supply, installation, testing and commissioning of equipment forming the Power Supply System and Overhead Equipment for the CMRL metro rail project together with training staff on the system operation and maintenance, and, with maintenance of the Power Supply System till the end of the test and commissioning of the whole CMRL metro rail system. It also includes the supply of spares and special maintenance tools and the supply of operation & maintenance manuals. The equipment required for the project shall feature all equipments and systems required to form part of Power Supply System and Overhead Equipment.

Power Supply System

Scope of Power supply System comprises detailed design, construction, testing and commissioning of the Power Supply System for the two Corridors and a Depot. The Power Supply System shall consist of:

- erection and commissioning of three 110 kV AC Receiving Substations, related Auxiliary Main Substations (3) and Traction Main Substations (3), including all civil works
- all civil works and equipment for the 25 kV AC power supply,
- 33 KV cable rings and the equipment of all the stations (13 Elevated & 19 Underground) and a Depot, including 33kV/415V transformers, DG sets,
- SCADA.

The scope of works includes but not limited to:

- Provision of GIS/AIS Receiving substation and related Auxiliary Main Substation, Traction Main Substation, including all civil works, associated cabling and earth provision
- 33 KV Cable Ring Main Network along Two corridors of Phase-1 for Station Auxiliaries.
- 33 KV/ 415 V, metro rail type, with indoor Type Air Insulated/ Gas Insulated Sub-stations with all Switchgear and Dry Type Transformers at all the stations (13 Elevated & 19 Underground) and a Depot. All these Sub-stations shall have provision for remote monitoring and control to enable through SCADA. Local monitoring and control shall be made with screen control panel with ergonomic and easy operating screen views.
- Digital Protection Control System (using fast acting relays and PLCs) providing all the data acquisition, data processing, overall protection control, interlocking, inter-tripping and monitoring of the entire power supply system SCADA system.
- SCADA system for auxiliary supply (33 KV and below) and 25 KV supply for traction.
- Interface between Power Supply System SCADA and Receiving Sub Station (RSS) equipments
- Standby Power supply ie, Diesel Generators of suitable rating with AMF panel required to meet the station Auxiliary loads in case of Main supply failure.

### Overhead Equipment (OHE)

Scope of Overhead Equipment comprises detailed design, construction, testing and commissioning of the 25 kV AC Overhead Equipment for the two Corridors and a Depot. The OHE shall consist of simple catenaries system for 40 Km (approximate) Track length (measured as single track) in the main lines on elevated sections and at grade sections and rigid conductors for underground section (approximately 50 Km). In the Depot (Koyambedu Depot), the OHE shall be single contact wire for stabling, workshops, Washing/Pit Lines etc (approximately 20 Km measured as single track). The scope of works includes but not limited to:

- OHE basic design, detailed design to specified design and performance parameters;
- Procurement of all equipment (Cables, conductors, 25 kV insulators, support systems, rigid beams and line switchgear);
- Installation of the OHE cables and supports
- Installation of earthing and bonds
- Supply of all materials and fittings required for the OHE;
- Full testing and commissioning of the OHE system and its integration within the metro project.

4. It is expected that Invitations to Bid will be made in May 2010.
5. Pre-qualification is open to Applicants (firms and voluntarily formed joint ventures or consortia) from eligible source countries, in accordance with the Guidelines for Procurement under JBIC ODA Loans except that “JAPAN BANK FOR INTERNATIONAL COOPERATION”, “JBIC”, the “BANK”, “the Section (1), Paragraph 2, Article 23 of THE JAPAN BANK FOR INTERNATIONAL COOPERATION LAW” as referred in the Guideline shall be substituted by “THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY”, “JICA”, “JICA” and “Clause (a), Item (ii), Paragraph 1, Article 13 of the ACT OF THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY”, respectively.

6. Eligible applicants may obtain the pre-qualification documents after January 11, 2010 by calling, writing, faxing, or telexing or by electronic mail to Chennai Metro Rail Limited, 11/6 Seethammal Road, Alwarpet, Chennai – 600 018, India, Telephone No 044-24310171 Telefax No 91 44-24312320. Website: [www.chennaietrorail.gov.in](http://www.chennaietrorail.gov.in) Email: [cgmt.cmrl@tn.gov.in](mailto:cgmt.cmrl@tn.gov.in)
7. The request must clearly state “Request for Pre-qualification Documents for Chennai Metro Rail Project Phase 1 Contract AEP-01 Power Supply System and Overhead Equipment - Design and Build”. The documents are available for a non-refundable fee of INR 2,500/-at the office address mentioned below. The Employer will promptly dispatch the documents by registered airmail, but under no circumstances will it be held responsible for late delivery or loss of the documents so mailed. The document can also be downloaded for free (please refer APPENDIX-II of the Instruction to Applicants) from the websites: [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in) and [www.chennaietrorail.gov.in](http://www.chennaietrorail.gov.in).
8. The Applicants shall meet the following minimum criteria in order to be pre-qualified:

The average annual turnover for works as prime contractor (defined as billing for works in progress or completed) over the last 5 financial years (i.e. financial years whose ending dates are between October 1, 2004 and September 30, 2009) of USD 78 million or the equivalent thereof. Two percent (2%) compounded escalation per annum on USD terms will be allowed for the first 4 years of turnover values given for this requirement.

Power Supply:

- (i) The Applicants shall have successful experience as prime contractors in the execution of Power Supply System design, erection, installation, testing and commissioning and complete integration of all Power Supply Systems and equipments in at least three projects of a comparable nature and complexity to the proposed metro rail project (Refer Para 3) in the last 10 years (between October 1,1999 and September 30, 2009) with at least

one project having been executed in the last 5 years (ending between October 1, 2004 and September 30, 2009).

- (ii) Applicant shall have carried out design, construction, testing and commissioning of at least one 110kV/33kV or one 110 kV/25kV Receiving Substation, including civil works, in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).
- (iii) Applicant shall have carried out design, construction, testing and commissioning of at least six 33kV/415V substations on one or several metro rail projects in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).
- (iv) Applicant shall have carried out design, construction, testing and commissioning of SCADA, including Digital Protection Control System (DPCS), PLCs and ergonomic screen control panel designing, computing designing, on a minimum of 2 metro rail projects in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).

Overhead Equipment (OHE):

- (i) Applicant shall have carried out design, construction, testing and commissioning of a minimum of 100 Km simple catenary with comparable features (as indicated in item 3 above) in the preceding 10 years (ending between October 1, 1999 to September 30, 2009).
- (ii) Applicant shall have carried out design, construction, testing and commissioning of a minimum of 5 Km Rigid Conductors (rigid catenaries) in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).

The prequalified applicants may be required to submit satisfactory performance certificates from their respective clients and to provide screen shots of its screen control panel during bidding stage.

- 9. Submissions of Applications for Pre-qualification must be received in sealed envelopes, either delivered by hand or by registered mail to the below mentioned address on or before: April 15, 2010 at 11.00 hrs., and be clearly marked

**Application to Pre-qualify for Chennai Metro Rail Project Phase 1, Contract AEP-01 Power Supply System and Overhead Equipment Design and Build.**

**Address:**

Chief General Manager ( Technical ),

Chennai Metro Rail Limited,

11/6, Seethammal Road, Alwarpet,

Chennai – 600018, India,

Phone : +91 44 24352339, Fax1 : +91 44 24312320, Fax2 : +91 44 24352340

Email: [cgmt.cmrl@tn.gov.in](mailto:cgmt.cmrl@tn.gov.in)

Web: [www.chennaietrorail.gov.in](http://www.chennaietrorail.gov.in)

10. The CMRL shall reject late applications.
11. Applicants will be advised, in due course, of the results of their pre-qualification applications. Only firms and joint ventures pre-qualified under this procedure will be invited to bid.

# **INSTRUCTION TO APPLICANTS**

## INSTRUCTIONS TO APPLICANTS

### Chennai Metro Rail Limited (CMRL)

January 11th, 2010

- 1. Scope of Bid**
- 1.1 The Chennai Metro Rail Limited (CMRL) hereinafter called “the Employer,” has received an ODA Loan from Japan International Cooperation Agency, hereinafter referred to as the JICA in the amount of 21,751,000,000 Yen towards the part cost of Chennai Metro Rail Project, Phase 1 in Chennai. The date of signing the Loan Agreement is November 21, 2008. This loan arrangement is the first tranche of JICA total loan, which is about 60% of the total estimated cost of JPY 220 Billion, in financing Chennai Metro Rail Project Phase I. CMRL intends to apply a portion of the proceeds of the total loan to payments under the contract for which this Invitation for Pre-qualification is issued.
- Disbursement of the ODA Loan by JICA will be subjected in all respects to the terms and conditions of the Loan Agreement, including the disbursement procedures and the "Guidelines for Procurement under JBIC ODA Loans" except that “JAPAN BANK FOR INTERNATIONAL COOPERATION”, “JBIC”, the “BANK”, “the Section (1), Paragraph 2, Article 23 of THE JAPAN BANK FOR INTERNATIONAL COOPERATION LAW” as referred in the Procurement Guideline shall be substituted by “THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY”, “JICA” , “JICA” and “Clause (a), Item (ii), Paragraph 1, Article 13 of the ACT OF THE INCORPORATED ADMINISTRATIVE AGENCY-JAPAN INTERNATIONAL COOPERATION AGENCY”, respectively.
- No party other than Chennai Metro Rail Limited shall derive any rights from the Loan Agreement or have any right to the loan proceeds. The above Loan Agreement will cover only a part of the Project cost. As for the remaining portion, Chennai Metro Rail Limited will take appropriate measures for finance.
- 1.2 JICA requires that bidders and contractors, as well as Chennai Metro Rail Limited, under contracts funded with JICA ODA Loans and other Japanese ODA, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, JICA;
- (a) will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

- (b) will recognize a contractor as ineligible, for a period determined by JICA, to be awarded a contract funded with JICA ODA Loans if it at any times determines that the contractor has engaged in corrupt or fraudulent practices in competing for, or in executing, another contract funded with JICA ODA Loans or other Japanese ODA.
- 1.3 The Employer intends to prequalify Design and Build contractors for Contract AEP-01 Power Supply System and Overhead Equipment Design and Build for the Chennai Metro Rail Project Phase 1. The scope of work comprises design, erection, manufacture / supply, installation, testing and commissioning of equipment forming the Power Supply System and Overhead Equipment for the CMRL metro rail project together with training staff on the system operation and maintenance, and, with maintenance of the Power Supply System till the end of the test and commissioning of the whole CMRL metro rail system. It also includes the supply of spares and special maintenance tools and the supply of operation & maintenance manuals. The equipment required for the project shall feature all equipments and systems required to form part of Power Supply System and Overhead Equipment.

#### Power Supply System

Scope of Power supply System comprises detailed design, construction, testing and commissioning of the Power Supply System for the two Corridors and a Depot. The Power Supply System shall consist of:

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- all civil works and equipment for the 25 kV AC power supply,
- 33 KV cable rings and the equipment of all the stations (13 Elevated & 19 Underground) and a Depot, including 33kV/415V transformers, DG sets,
- SCADA.

The scope of works includes but not limited to:

- Provision of GIS/AIS Receiving substation and related Auxiliary Main Substation, Traction Main Substation, including all civil works, associated cabling and earth provision
- 33 KV Cable Ring Main Network along Two corridors of Phase-1 for Station Auxiliaries.
- 33 KV/ 415 V, metro rail type, with indoor Type Air Insulated/ Gas Insulated Sub-stations with all Switchgear and Dry Type Transformers at all the stations (13 Elevated & 19

Underground) and a Depot. All these Sub-stations shall have provision for remote monitoring and control to enable through SCADA. Local monitoring and control shall be made with screen control panel with ergonomic and easy operating screen views.

- Digital Protection Control System (using fast acting relays and PLCs) providing all the data acquisition, data processing, overall protection control, interlocking, inter-tripping and monitoring of the entire power supply system SCADA system.
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- OHE basic design, detailed design to specified design and performance parameters;
- Procurement of all equipment (Cables, conductors, 25 kV insulators, support systems, rigid beams and line switchgear);
- Installation of the OHE cables and supports
- Installation of earthing and bonds
- Supply of all materials and fittings required for the OHE;
- Full testing and commissioning of the OHE system and its integration within the metro project.

It is expected that Invitations to Bid will be made in May 2010.

- 1.4 Pre-qualification is open to firms and voluntarily formed joint ventures or consortia from eligible source countries as shown in the attached List of Eligible Source Countries included in this Pre-qualification Documents.
- 1.5 Project information is provided in Appendix I and the expected time for completion is about 43 months. The contract will be a lump sum

contract. The bidding documents will be Sample Bidding Documents for Supply and Installation of Plant and Equipment under JBIC ODA Loans, including their currency and securities provisions but the term "JBIC" shall be substituted by "JICA".

**2. Submission of Applications**

2.1 Submission of applications for pre-qualification must be received in sealed envelopes, either delivered by hand, courier or by registered mail at **Chennai Metro Rail Limited, 11/6, Seethammal Road, Alwarpet, Chennai –600018, India** not later than April 15, 2010 at 11:00 hour, and must be clearly marked "Application to Pre-qualify for Chennai Metro Rail Project Phase 1 Contract AEP-01 Power Supply System and Overhead Equipment Design and Build." The Employer shall reject late applications.

Submissions shall be made in three sets of documents comprising of one original set and two sets of copies addressed to the Chief General Manager ( Technical ) at the address shown above.

2.2 The name and mailing address of the Applicant shall be clearly marked on the envelope.

2.3 All information requested for pre-qualification shall be answered in the English language. Where information is provided in another language, it shall be accompanied by a translation into English language, which will prevail and will be used for interpreting the information.

2.4 Failure to provide information that is essential to evaluate the Applicant's qualifications, or to provide timely clarification or substantiation of the information supplied, may result in disqualification of the Applicant.

2.5 A clarification meeting will be held at 11.00 AM on February 11, 2010 in the Conference Room of Chennai Metro Rail Limited, Chennai, at which prospective applicants may request clarification of the Project requirements and the criteria for qualification. Attendance to the clarification meeting is not mandatory.

**3. Eligible Bidders**

3.1 This invitation to pre-qualify is open to any bidder from an eligible source country as per attached List of Eligible Source Countries included in this Pre-qualification Documents.

**4. Qualification Criteria**

4.1 Pre-qualification will be based on meeting all the following minimum pass/fail criteria regarding the Applicant's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in the forms attached to the Letter of Application (specific requirements for joint ventures are given under paragraphs. 5.1 and 5.2 below).

- 4.2 **Subcontracting.** When standard proprietary equipment (essential for execution of the Contract) is required by the Applicant from specialist subcontractors and / or supplier, such subcontractors / suppliers and their inputs shall be described in Application Form 3.

The design of the Power Supply System, for other than standard proprietary equipment, shall not be subcontracted.

The Applicant shall attest that it/they will internally design the Power Supply System equipment except those for standard proprietary equipment.

- 4.3. **General Experience.** The Applicant shall meet the following minimum criteria:

1. The average annual turnover for works as prime contractor (defined as billing for works in progress or completed) over the last 5 financial years (i.e. financial years whose ending dates are between October 1, 2004 to September 30, 2009) of USD 78 million or the equivalent there of. Two percent (2%) escalation per annum on USD terms will be allowed for the first 4 years of turnover values given for this requirement.

2a. Power Supply:

(i)The Applicants shall have successful experience as prime contractors in the execution of Power Supply System design, Erection, Installation, Testing and Commissioning and complete integration of all Power Supply Systems and equipments in at least three projects of a comparable nature and complexity to the proposed metro rail project (Refer Para 1.3) in the last 10 years (ending between Oct 1, 1999 and Sept 30, 2009) with at least one project having been executed in the last 5 years (ending between October 1, 2004 and September 30, 2009).

(ii)Applicant shall have carried out design, construction, testing and commissioning of at least one 110kV/33kV or one 110 kV/25kV Receiving Substation, including civil works, in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).

(iii)Applicant shall have carried out design, construction, testing and commissioning of at least six 33kV/415V substations on one or several metro rail projects in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).

(iv)Applicant shall have carried out design, construction, testing and commissioning of SCADA, including Digital Protection Control System (DPCS), PLCs and ergonomic

screen control panel designing, computing designing, on a minimum of 2 metro rail projects in the preceding 5 years (ending between October 1, 2004 and September 30, 2009).

**2b. Overhead Equipment (OHE):**

- (i) Applicant shall have carried out design, construction, testing and commissioning of a minimum of 100 Km simple catenary with comparable features (as indicated in item 3 above) in the preceding 10 years (ending between October 1, 1999 to September 30, 2009).
- (ii) Applicant shall have carried out design, construction, testing and commissioning of a minimum of 5 Km Rigid Conductors (rigid catenaries) in the preceding 5 years (ending between October 1, 2004 and September 30, 2009)

Applicants shall fill in Application Forms 1, 2, 2a (JV only), 2b (JV only), 3, 3a and 4.

Previous experience as part of a joint venture/ consortium will be considered either based on the certification by an employer of actual work done or as detailed out in the JV agreement (or in case both above details are not available, then in the ratio of financial participation). The pre-qualified applicants may be required to submit satisfactory performance certificates from their respective clients and to provide screen shots of its screen control panel during bidding stage. Where necessary, CMRL will make inquiries with the Applicant's clients.

**4.4 Personnel Capabilities.** The Applicant must have suitably qualified personnel to fill the following positions. In Form 5, the Applicant will supply information on a prime candidate and on an alternate for each position; both people should meet the experience requirements specified below:

Position	Total Experience (years)	In Similar Projects (years)	As Manager of Similar Projects (years)
Project Manager	15	10	5
Manager (Power Supply)	10	7	3
Manager (Overhead Equipment)	10	7	3
T&C Manager	10	7	3
QA Manager	10	7	3

The Applicant will be considered to pass this criteria if the resumes of a prime candidate and an alternate are provided for each position and meet or exceed the minimum number of years experience as required above

**4.5 Internal Simulation or Testing Capabilities:**

The Applicant shall have simulation and testing equipments and facilities for full design checking and validation (through load simulation) and for testing of the subsystem once installed on site, for the Chennai Metro Rail contract.

The Applicant shall own, or have assured access (through hire, lease, purchase agreement, availability of manufacturing equipment or other means) to the following key items of simulation / testing equipment in full working order, and must demonstrate that, based on known commitments, they will be available for use in the proposed contract. The Applicant may also list alternative equipment that it would propose for the contract, together with an explanation of the proposal:

Equipment Type and Characteristics	Minimum Number Required
Auxiliary power supply simulator	1
Load test bench for:	
33kV/415 transformers	1
Diesel Generators	1
Data acquisition system including current metering, voltage metering, harmonic metering	3
Acoustic and vibration data acquisition recorder	1

The Applicant shall fill in Form 6.

**4.6 Liquidity:** The Applicant should demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means sufficient to meet the peak cash flow of USD 14 Million or equivalent there of (which is equivalent to four months peak cash flow), net of the Applicant's commitments for other contracts, during the entire contract period.

**4.7 Profitability.** The audited financial statements for the last five financial years (financial years whose ending dates are between October 1, 2004 and September 30, 2009) shall be submitted. Self certified financial statements for the last financial year will be accepted in case the audit has not been completed. But if

prequalified, the firm would need to submit the audited statement as part of the bid. Where necessary, the Employer will make inquiries with the Applicant's bankers.

In order to pre-qualify, cumulative profit before tax but after interest shall be positive for the last 5 financial years;

**OR**

Profit before tax but after interest shall be positive for any 3 years out of last 5 financial years.

4.8 **Litigation History.** The Applicant must provide accurate information on any litigation or arbitration resulting from contracts completed or ongoing over the last 10 years. A consistent history of awards against the Applicant or any partner of a joint venture may result in rejection of the application for prequalification.

4.9 **Quality Assurance.** The Applicant (and respectively, for each constituent member of the Joint Venture) shall prove that they currently maintain an in-house Quality Assurance Program compliant with ISO 9001:2000 or 2008 and shall provide copies of certificates with their pre-qualification application.

**5. Joint Ventures / Consortia**

5.1 Joint Ventures/ Consortia must comply with the following requirements:

- (a) Following are the minimum qualification requirements:
  - i) The lead partner shall meet not less than 40 percent of the qualifying criteria given in paragraphs 4.3.1, 4.3.2a and 4.6 above.
  - ii) Each of the other partners shall meet individually not less than 25 percent of the qualifying criteria given in paragraphs 4.3.1, 4.3.2a or 4.3.2b, and 4.6 above.
  - iii) The joint venture/consortium must collectively satisfy 100% of the criteria of paragraphs 4.3 through 4.6, for which purpose the vetted figures for each of the partners shall be added together to arrive at the joint venture's total capacity. Individual members must each satisfy the requirements of paragraphs 4.7, 4.8 and 4.9 above. Not more than one member of a JV/consortium can claim an identical previous works experience.
- (b) The formation of a joint venture/consortium after pre-qualification, or any change in a pre-qualified joint venture/consortium team member, will be subject to the written approval of the CMRL prior to the deadline for submission of bids. Such approval may be denied for reasons including but not limited to the followings:

- (i) partners withdraw from a joint venture / consortium and the remaining partners do not meet the qualifying requirements;
    - (ii) the new partners to a joint venture / consortium are not qualified, individually or as another joint venture; or
    - (iii) in the opinion of the Employer, a substantial reduction in competition may result.
  - (c) At the bid stage, 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 the joint venture or consortium undertaking agreement, consistent with Application Forms 2a and 2b, providing the joint and several liabilities with respect to the contract.
- 5.2 The pre-qualification of a joint venture / consortium does not necessarily pre-qualify any of its partners individually or as a partner in any other joint venture / consortium. In case of dissolution of a joint venture/consortium, each one of the constituent firms may pre-qualify if it meets all of the pre-qualification requirements, subject to the written approval of the Employer.
- 6. Conflict of Interest**
- 6.1 The Applicant (including all members of a joint venture/consortium) shall not be one of the followings:
- (i) A firm or an organization which has been engaged by the Employer to provide consulting services for the preparation of documentation, design and/or other operational or functional information related to procurement or implementation of this 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 personnel 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.
- 7.Updating Pre-Qualification Information**
- 7.1 Bidders will 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 will be rejected if the Applicant's qualification thresholds are no longer met at the time of bidding.
- 8. General**
- 8.1 Only firms, joint ventures or consortia that have been pre-qualified under this procedure will be invited to bid. A qualified firm or a member of a qualified joint venture or consortium may participate in only one bid for the contract. If a firm submits more than one bid,

singly or as joint venture or consortium, all bids including that party will be rejected. This rule may not apply in respect of bids that include specialist subcontractors who are used by more than one bidder.

8.2 Bidders will be required to provide bid security in the form of a certified cheque, letter of credit, or a bank guarantee from a Scheduled Bank in India (meaning a bank which has been included in the Second Schedule of reserve Bank of India Act, 1934) of the Bidder's choice. The amount will be mentioned in the main tender document (roughly USD 1.7 Millions). The successful bidder will be required to provide performance security. Examples of acceptable forms will be supplied with the bidding documents.

8.3 The Employer reserves the right to

(a) Amend the scope and value of any contract to be bid, in which event the contract may only be bid among those pre-qualified bidders who meet the requirements of the contract as amended, if in CMRL's opinion the change in scope and/ or value is minor.;

(b) Reject or accept any application; and

(c) Cancel the pre-qualification process and reject all applications.

The Employer shall neither be liable for any such actions nor be under any obligation to inform the Applicant of the grounds for them.

8.4 Applicants will be advised by the Employer in writing by fax or telex, within 60 days of the date for submission of applications (paragraph 2.1 above), of the result of their application, and of the names of the pre-qualified applicants, without being assigned any reason for the Employer's decision.

# Letter of Application

*[letterhead paper of the Applicant  
or partner responsible for a joint venture,  
including full postal address,  
telephone no., fax no., telex no.,  
and cable address]*

Date:.....

To,  
Chief General Manager (T)  
Chennai Metro Rail Limited  
11/6, Seethammal Road, Alwarpet  
Chennai – 600 018  
India

Sir,

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

<b>Contract Number.</b>	<b>Contract Name*</b>
1. AEP-01	Contract AEP-01 Power Supply System and Overhead Equipment Design and Build

2. Attached to this letter are copies of original documents defining<sup>1</sup> :
  - (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).

---

<sup>1</sup> For applications by joint ventures, all the information requested in the pre-qualification documents is to be provided for the joint venture, if it already exists, and for each party to the joint venture separately. The lead partner should be clearly identified. Each partner in the joint venture shall sign the letter.

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, experience, and competence of the Applicant.
4. Your Agency and its authorized representatives may contact the following persons for further information<sup>2</sup>:

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

Personnel inquiries	
Contact 1	Telephone 1
Contact	Telephone 2

Technical inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Financial inquiries	
Contact 1	Telephone 1
Contact	Telephone 2

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<sup>2</sup> Applications by joint ventures/consortia should provide on a separate sheet equivalent information for each party to the application.

5. This application is made with the full understanding that:
- (a) bids by pre-qualified applicants will be subject to verification of all information submitted for pre-qualification 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 pre-qualified bidders who meet the revised requirements; and
    - reject or accept any application, cancel the pre-qualification 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 joint ventures/consortia should delete paragraphs 6 and 7 and initial the deletions.

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6. Appended to this application (In Forms 2a and 2b), we give details of the participation of each party, including capital contribution and profit/loss agreements, in the joint venture or consortium. 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 joint venture agreement or consortium Memorandum of Understanding (MOU) 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. We understand that the provision of incorrect or incomplete information may lead to disqualification and to terminate (if a contract has been awarded) with such legal consequences, including damages, as may apply.

Signed  Name.	Signed  Name.
For and on behalf of (name of Applicant or lead partner of a joint venture or consortium)	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)

## General Information

All individual firms and each partner of a joint venture applying for pre-qualification are requested to complete the information in this form. Nationality information should be provided for all owners or applicants who are partnerships or individually-owned firms.

Where the Applicant proposes to use named subcontractors for specialist works (reference sub-clause 4.2 of the Instructions), the following information should also be supplied for the specialist subcontractor(s), together with a brief description of their specialized input.

1.	Name of firm	
2.	Head office address	
3.	Telephone	
4.	Fax	
5.	Place of incorporation / registration	Year of incorporation / registration

Nationality of owners <sup>3</sup>		
Name		Nationality
1.		
2.		
3.		
4.		
5.		

---

<sup>3</sup> To be completed by all owners of partnerships or individually-owned firms.

# General Experience Record

Name of Applicant or partner of a joint venture or consortium
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All individual firms and all partners of a joint venture/consortium are requested to complete the information in this form. The information supplied should be the annual turnover of the Applicant (or each member of a joint venture/consortium), in terms of the amounts billed to clients for each year for work in progress or completed, converted to U.S. dollars at the rate of exchange at the end of the period reported.

Use a separate sheet for each partner of a joint venture/consortium.

Applicants are not required to enclose testimonials, certificates and publicity material with their applications; they will not be taken into account in the evaluation of qualifications.
--

Annual turnover data (Power Supply System and Overhead Equipments, equipment, goods and related services only)		
Year	Turnover (Local Currency)	USD equivalent ( <i>Please specify the exchange rate at the end of the period reported</i> )
1.		
2.		
3.		
4.		
5.		

# Joint Venture or Consortium Summary

<i>Names of all partners of a joint venture or consortium</i>
1. Lead partner
2. Partner
3. Partner
4. Partner
5. Partner
6. Partner

Total value of annual turnover (billings) of Power Supply Systems, equipment, goods and related services which apply to this contract, in terms of work billed to clients, in USD equivalent, converted at the rate of exchange at the end of the period reported:

<i>Annual turnover data (power supply system, equipment, goods and services only; USD equivalent) (Please specify the exchange rate at the end of the period reported)</i>						
Partner	Form 2 page no.	Year1	Year2	Year3	Year4	Year5
<i>1. Lead Partner</i>						
<i>2. Partner</i>						
<i>3. Partner</i>						
<i>4. Partner</i>						
<i>5. Partner</i>						
<i>6. Partner</i>						
<i>Totals</i>						

## Joint Venture or Consortium Undertaking

To,

Chief General Manager (T)  
Chennai Metro Rail Limited  
11/6, Seethammal Road, Alwarpet  
Chennai – 600 018  
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 Joint Venture Agreement or Consortium MOU 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 Joint Venture/Consortium] to act as the Bidder's Representative in the name and on behalf of their group.
4. that all partners of the Joint Venture/Consortium shall be liable jointly and severally for the execution of the Contract;
5. that this Joint Venture/Consortium is 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 Joint Venture/Consortium, 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	Share of the Work (as percentage of the contract amount)
1. Lead Partner	
2. Partner	
3. Partner	
4. Partner	
Total	100

*Give names and positions of the proposed Joint Venture/Consortium 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)	

## Particular Experience Record

Name of Applicant or partner of a joint venture/consortium or specialist subcontractor / suppliers

To pre-qualify, the Applicant shall be required to pass the specified requirements applicable to this form, as set out in the "Pre-qualification Instructions to Applicants".

On a separate page, using the format of Form (3a), the Applicant is requested to list all contracts of a similar nature and complexity to the contract for which the Applicant wishes to qualify and undertaken during the last 10 years. The partners of a joint venture/consortium should provide details of similar contracts proportionate to their share in the joint venture/consortium. The value should be based on the currencies of the contracts converted into U.S. dollars, at the date of substantial completion, or for current contracts at the time of award. The information is to be summarized, using Form (3a), for each contract completed or under execution, by the Applicant or by each partner of a joint venture/consortium.

Where the Applicant proposes to use named subcontractors for critical components of the works, the information in the following forms should also be supplied for each specialist subcontractor.

It may be permissible to request applicants to enclose evidence documents for work in progress or completed, only to the extent that it does not discourage the applicants from submission of applications. Use of copy of certificates is recommended.

## Details of Contracts of Similar Nature and Complexity

Name of Applicant or partner of a joint venture/consortium or specialist subcontractors / suppliers

Use a separate sheet for each contract.

1.	Number of contract	
2.	Name of contract	
3.	Employer address	
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to pre-qualify	
5.	Contract role (check one) Sole contractor    Management Contractor    Subcontractor    Partner in a joint venture	
6.	Value in specified currencies at completion, or at date of award for current contracts, <ul style="list-style-type: none"> <li>• Total Contract Amount: _____ (name of currency)</li> <li>• Sub-Contract Amount (if the role was Sub contractor): _____ (name of currency)</li> <li>• Responsible Contract Amount (if the role was partner in a joint venture):            _____ (name of currency)    _____ (percentage of share)%</li> </ul>	
7.	Equivalent value USD	
8.	Date of award	
9.	Date of completion	
10.	Contract/Subcontract duration (years and months). _____ years _____ months	
11.	Specified requirements	
12.	Was Training for Operation & Maintenance a part of Contract? (Yes/No)	

## Summary Sheet: Current Contract Commitments / Works in Progress

Name of Applicant or partner of a joint venture/consortium

Note : Applicants and each partner to an application 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 in following format

Sl. No.	Name of Contract	Name of Client with telephone number	Date of award of Contract	Number of power substation to be supplied	Contract Value (USD Equivalent)	No of power substation supplied to date	Value of outstanding work (current USD equivalent)	Commencement Date	Did the Applicant go for Arbitration? If yes, give details	Did the Applicant go for Litigation? If yes, give details	Estimated Completion date

## Personnel Capabilities

Name of Applicant
-------------------

For specific positions essential to contract implementation, applicants should provide the names of at least two candidates qualified to meet the specified requirements stated for each position. The data on their experience should be supplied in separate sheets using one Form (5a) for each candidate.

1.	Project Manager
	Name of prime candidate
	Name of alternate candidate
2.	Manager – Power Supply
	Name of prime candidate
	Name of alternate candidate
3.	Manager – Overhead Equipment
	Name of prime candidate
	Name of alternate candidate
4.	T&C manager
	Name of prime candidate
	Name of alternate candidate
5.	Quality Assurance Manager
	Name of prime candidate
	Name of alternate candidate

## Candidate Summary

Name of Applicant
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Position	Candidate	
	Prime	Alternate
Candidate information	1. Name of candidate	2. Date of birth
	3. Professional qualifications	
Present employment	4. Name of employer	
	Address of employer	
	Telephone	Contact (manager / personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

Summarize professional experience over the last 10 to 15 years as to cover requirements of § 4.4, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

<i>From</i>	<i>To</i>	<i>Company / Project / Position / Relevant technical and management experience</i>

## Simulation / Testing 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 listed in the Instructions to Applicants. A separate Form (6) shall be prepared for each item of equipment listed in paragraph 4.5 of the Instructions to Applicants or for alternative equipment proposed by the Applicant.

Item of equipment

Equipment information	1. Name of manufacturer	2. Model and sub 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.

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

## Financial Capability

Name of Applicant or partner of a joint venture/consortium

Applicants, including each partner of a joint venture/consortium, should provide financial information to demonstrate that they meet the requirements stated in the Instructions to Applicants. Each applicant or partner of a joint venture/consortium must fill in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets and statement of profit and losses should be attached.

Banker	Name of banker		
	Address of banker		
	Telephone	Contact name and title	
	Fax	Telex	

Summarize actual assets and liabilities in U.S. dollar equivalent (at the rates of exchange current at the end of each year) for the previous five years. *(Please specify the exchange rate at the end of the period reported)*

<i>Financial information in USD equivalent</i>	Actual: previous five years				
	1.	2.	3.	4.	5.
1. Total assets					
2. Current assets					
3. Total liabilities					
4. Current liabilities					
5. Sales					
6. Ordinary Profits					
7. Profits before taxes					
8. Profits after taxes					

Specify proposed sources of financing to meet the cash flow demands of the Project, net of current commitments for other contracts (Instructions to Applicants, paragraph 4.6).

<i>Source of financing</i>	<i>Amount (USD equivalent)</i>
1.	
2.	
3.	
4.	

Attach audited financial statements for the last five years (for the individual applicant or each partner of a joint venture/consortium).

Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin.

Applicants should be requested to submit a bank reference letter from a reputable commercial bank to the effect that such bank certifies the financial capability of the applicants to meet their financial obligation to perform the said contract and considers to issue a specific line of credit when and if the contract is awarded to the applicants.

## Litigation History

Name of Applicant or partner of a joint venture/consortium
--

Applicants, including each of the partners of a joint venture/consortium, should provide information on any history of litigation or arbitration resulting from contracts executed in the last 10\_\_ years (state number of years) or currently under execution (Instructions to Applicants paragraph 4.8). A separate sheet should be used for each partner of a joint venture.

<i>Year</i>	<i>Award FOR or AGAINST Applicant</i>	<i>Name of client, cause of litigation, and matter in dispute</i>	<i>Disputed amount (current value, USD equivalent)</i>

The undersigned declare that the statements made and the information provided in the duly completed application are complete, true and correct in every detail. We understand that the provision of incorrect or incomplete information may lead to disqualification and to termination (if a contract has been awarded) with such legal consequences, including damages, as may apply.

# **List of Eligible Countries of JICA ODA Loans**

ALL COUNTRIES ARE ELIGIBLE ON DATE

# APPENDIX - I

## PROJECT INFORMATION

### CHENNAI CITY PROFILE

Chennai is the fourth largest Metropolis in India with a population of about 8 million. Chennai is also witnessing rapid economic growth, dating from the last few decades, partly driven by the establishment of automobile manufacturing plants, technology and hardware as well as the IT and ITES sectors. Chennai is the second largest exporter of software services after Bangalore. It is India's major leather-producing centre and the quality of leather compares with the finest in the world.

It is a coastal city with the second largest beach in the world. The climate is hot and humid but the breeze blowing from the sea makes the climate bearable.

### GENERAL CLIMATIC CONDITIONS

The area in which the work lies is plain terrain falling within latitudes 13<sup>0</sup>4' North and longitudes 80<sup>0</sup>15' East. The recorded highest and lowest temperatures in the past 10 years are 44<sup>0</sup>C and 20<sup>0</sup>C respectively. Summer season is from March to June, the North-East monsoon from October to mid-December and the winter season is from December to February. Mean average annual rainfall in the area over a five year period is of the order of 1500 mm, when about 75% of the annual rainfall occurs during October to December. The heaviest rainfall recorded in a span of 24-hour is 191 mm. Chennai falls in Seismic Zone III.

### PROJECT DESCRIPTION

The Chennai city population generates about 11 million trips in a day, with about 6 million vehicular trips. The ever growing vehicular and passenger demands coupled with constraints on capacity augmentation of the existing network have resulted in chaotic condition during peak hours of the day. Most of the roads in CBD are congested and roads in older areas have inadequate or poor geometries. An inadequate orbital road system, with lot of missing links, has put tremendous strain on the radial network and forced for an efficient Transportation system in the City.

In view of the above ,the Government of Tamilnadu (GoTN) and Government of India (GOI) through a special purpose vehicle Chennai Metro Rail Limited(CMRL) have taken steps to provide an efficient Metro Rail System in the city, duly integrated with other modes of transport to solve the traffic and transport problems in Chennai which have aggravated over the years.

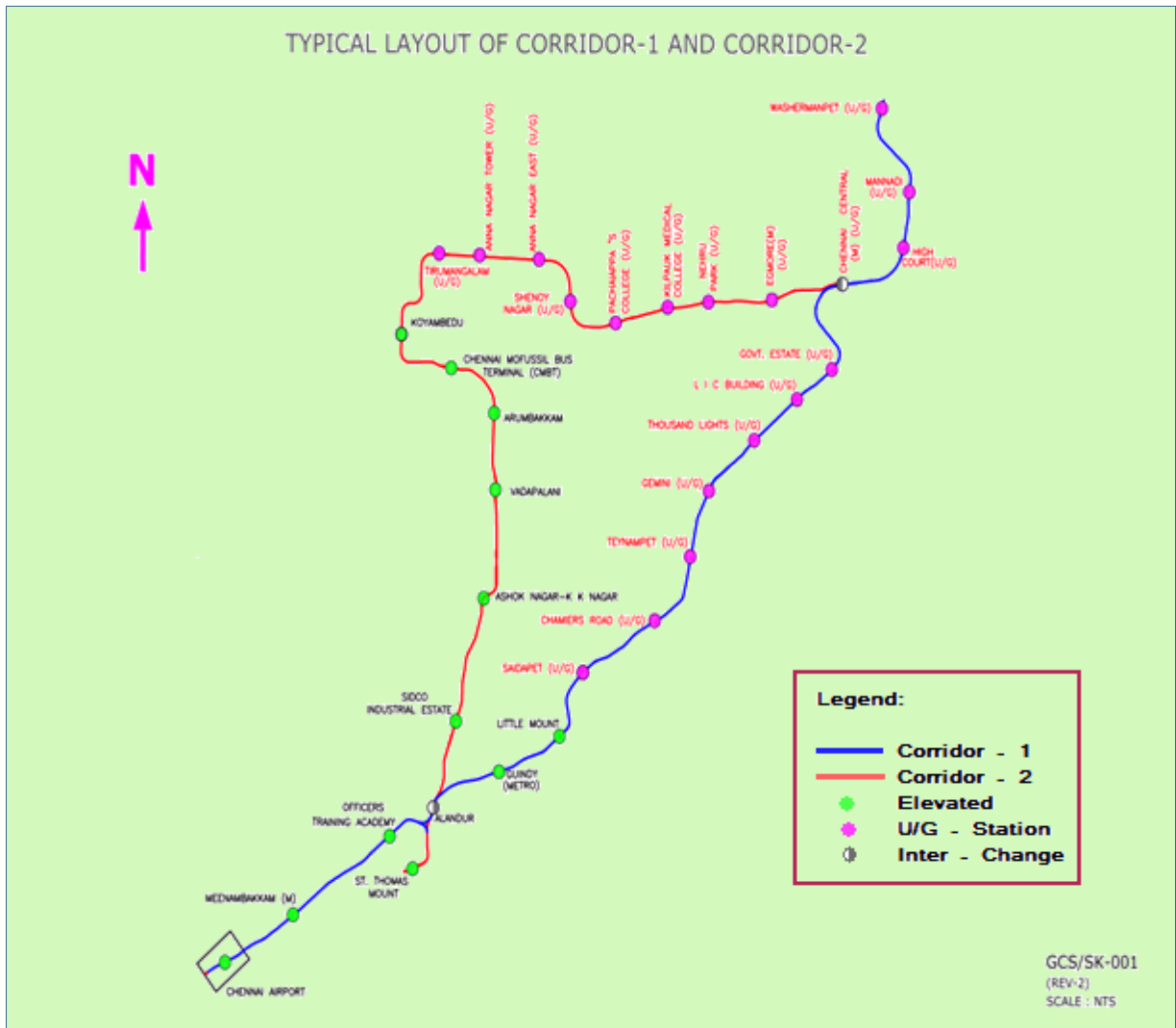
Chennai Metro Rail Limited (CMRL) has awarded the General Consultancy Services to the EMBYE Consortium, composed of EGIS RAIL, AECOM Asia (previously known as Maunsell AECOM), YEC, BARSYL and EGIS India.

Following two- corridors of about 45km length have been selected for implementation under

**Phase -1.**

**Corridor1:** Washermenpet to Airport along Anna Salai (North - South Corridor) is of about 23 Km length.

**Corridor2:** Chennai Central- Anna Nagar-St. Thomas Mount along E.V.R Periyar Salai (East - West Corridor) is of about 22 Km length.



## SALIENT FEATURES

Sl. No.	Features
1	Track Gauge (Nominal) with UIC 60 rails 1435 mm
2	Route Length (Between Dead Ends)
	(a) Corridor 1: Underground 14.3 Km; Elevated 8.785 Km; Total 23.085 Km
	(b) Corridor 2: Underground 9.695 Km; Elevated 12.266 Km; Total 21.961 Km
3	No. of Stations
	(a) Corridor 1: Underground 11 Nos. Elevated 6 Nos.; Total 17 Nos. (Chennai Central and Alandur common for both corridors),
	(b) Corridor 2: Underground 8 Nos., Elevated 7 Nos.; Total 15 Nos.
4	Design Speed 80 kmph
5	Traction Power Supply System
	• Traction System Voltage 25kV AC
	• Source of Power Supply Overhead Equipment
6	Rolling Stock (Air-Conditioned)
	a) 2.90 m wide with stainless steel and / or aluminium body
	b) Maximum axle Load 16 tons
	c) Length of the cars 21.64 m

## APPENDIX – II

(Please refer to Item 7 in the Invitation for Pre-Qualification)

### Instruction Regarding Downloading of Pre-Qualification Documents From Internet

Pre-qualification Documents can also be downloaded free of cost from the websites: [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in) and [www.chennaietrorail.gov.in](http://www.chennaietrorail.gov.in)

Pre-qualification document can be downloaded from the internet and printout is to be taken on A4 or appropriate size paper and details are to be entered by the Applicant at the various locations in the document. It is advisable that the down loaded Pre-qualification document to be printed through laser printer only. **Submission of Xerox or photocopy of Pre-qualification document is prohibited.**

Applicants are free to download Pre-qualification document at their own risk, for the purpose of perusal as well as for using the same as Pre-qualification document for submitting the application. Master copy of the Pre-qualification document is available in the CMRL office. In case, any discrepancy between the Pre-qualification document downloaded from the internet and the master copy, latter shall prevail and will be binding on the Applicants. No claim on this account will be entertained.

The following declaration should be given by the applicants while submitting the application.

#### **Declaration**

I/We have downloaded the Pre-qualification document from the Internet site [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in) / [www.chennaietrorail.gov.in](http://www.chennaietrorail.gov.in) and I/We have not tampered / modified the application forms in any manner. In case, if the same is found to be tampered / modified, I/We understand that my/our application for pre-qualification will be summarily rejected and I/We am/are liable to be banned from doing business with CMRL and/or prosecuted.