

BIDDING DOCUMENTS

FOR

**Design, Manufacture, Supply, Installation, Testing and Commissioning of
Signalling and Train Control System for Ahmedabad Metro Rail Phase - II**

TENDER NO. GMRC/S&T/SIG-03

PART-I BIDDING PROCEDURE

SECTION-III,

**EVALUATION AND QUALIFICATION
CRITERIA (EQC)**

Gujarat Metro Rail Corporation (GMRC) Limited

(SPV of Govt. of Gujarat and Govt. of India)

Formerly known as Metro Link Express for Gandhinagar and Ahmedabad (MEGA) Co. Ltd.

Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan,

Sector 10/A, Gandhinagar: 382010,

Gujarat, India

Corporate Identification No (CIN): U60200GJ2010SGC059407

Section III. Qualification and Evaluation

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders in accordance with ITB 30, ITB 33 and ITB 37. The Bidder shall provide all the information requested in the respective forms and schedules included in Section IV, Bidding Forms and Schedules.

1. Evaluation of Initial Filter cum Qualification Requirement Bid (i.e. Envelope 1)

Completeness and responsiveness of the Initial Filter cum Qualification Requirement (IFcQR) Bid will be assessed according to the documents submitted in accordance to ITB 11 and Responsiveness Criteria of ITB 30. In addition, the following criteria shall also apply:-

| Criteria | | | Requirements | | | | Submission Requirements |
|------------------------|-----------------------------|-----------------------------------------------------------------|-----------------------|--------------------------------------|-----------------------|-------------|-------------------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.1 Eligibility | | | | | | | |
| 1.1.1 | Nationality | Nationality in accordance with ITB 4.3 | Must meet requirement | N/A | Must meet requirement | N/A | Forms ELI-1.1, 1.2 with attachments |
| 1.1.2 | Conflict of Interest | No conflicts of interest in accordance with ITB 4.2 | Must meet requirement | N/A | Must meet requirement | N/A | Letter of IFcQR Bid |
| 1.1.3 | AFD Eligibility | Not being ineligible for AFD financing, as described in ITB 4.3 | Must meet requirement | N/A | Must meet requirement | N/A | Appendix to Letter of IFcQR Bid |
| 1.1.4 | State-Owned Entity | Compliance with conditions of ITB 4.3 | Must meet requirement | N/A | Must meet requirement | N/A | Forms ELI-1.1, 1.2 with attachments |

| Criteria | | | Requirements | | | | Submission Requirements |
|------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|------------------------------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.2 Historical Contract Non-Performance | | | | | | | |
| 1.2.1 | History of Non-Performing Contracts | Non-performance of a Contract ¹ did not occur as a result of Contractor's default in the past five (5) years. | Must meet requirement | N/A | Must meet requirement ² | N/A | Form CON-1.1 |
| 1.2.2 | Suspension Based on Execution of Bid Securing Declaration by the Employer | Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.4 | Must meet requirement | N/A | Must meet requirement | N/A | Letter of IFcQR Bid |
| 1.2.3 | Pending Litigation | All pending litigation shall in total not represent more than one hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder ³ . | Must meet requirement | N/A | Must meet requirement | N/A | Form CON-1.1 |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.2.4 | Historical Debarment / Blacklisting / Termination / Rescind | Bidder should not have been debarred by Government of India / any State Government in India / Central or State Government undertakings as on the due date of submission of Bid. | Must meet requirement | N/A | Must meet requirement | N/A | Form CON-1.2 |
| <p>¹ Non-performance shall include all terminations of Contracts where (a) non-performance was not challenged by the Bidder, including through referral to the dispute resolution mechanism under the respective Contract, and (b) Contracts that were so challenged but fully settled against the Bidder. Non-performance shall not include Contracts where Employers decision was overruled by the dispute resolution mechanism.</p> <p>² This requirement also applies to contracts executed by the Bidder as JV/Consortium member.</p> <p>³ A consistent history of awards against the Bidder or any other member of a JV/Consortium may result in rejection of the Bid.</p> | | | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|-----------------------|-------------|-------------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.3 Financial Situation and Performance | | | | | | | |
| 1.3.1 | Financial Performance: Net Worth | The minimum requirements to 'Pass' this criteria is that the Balance sheets should indicate that the Net Worth of the Bidder (to be obtained from audited Balance Sheet) shall be positive in the audited statement of any 03 of the last 05 financial years. The financial year as applicable in the country of origin of the Bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.03.2021. | Must meet requirement | N/A | Must meet requirement | N/A | Form FIN-3.1 with attachments |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|-------------|-------------|----------------------------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.3.2 | Financial Capabilities: Sources of Finance / Liquidity | <p>(i) 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.</p> <p>(ii) This can be seen from the balance sheets and/or from the banking reference. Net current assets {(Current assets + loans & advances) – (current liabilities + provision)} or documents including banking reference, should show that the Bidder has access to or has available liquid</p> | Must meet requirement | Must meet requirement | N/A | N/A | Form FIN-3.2 (a), (b) & (c) with attachments |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | assets, lines of credit and other financial means to meet cash flow INR 255 Million for this Contract, net of Bidder's commitments for other Contracts. Banking reference should contain in clear terms that in case LOA is issued to the Bidder, the bank will be in a position to lend for this work to the Bidder/member of the Joint Venture/Consortium preferably in the form given in Section IV: Bidding Forms and Schedules - Bidder's Qualification- Form FIN-3. In case the Net Current Assets (as seen from the Balance | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | <p>Sheets) are negative, only the Banking references will be considered. Otherwise the aggregate of the Net Current Assets and submitted Banking references will be considered for working out the Liquidity.</p> <p>Liquidity of INR 255.00 Million available: Pass</p> <p>Liquidity of INR 255.00 Million not available: Fail</p> <p>(iii) In case of a Joint Venture/ Consortium, the above evaluation will be done in totality after applying pro-rata percentage participation of each</p> | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | member and not as individual member. For e.g., if there are three members in a Joint Venture/Consortium with pro-rata percentage participation of 'A%', 'B%' and 'C%' and the calculated liquidity of the respective members are 'X', 'Y' and 'Z', then the evaluation for the above criteria will be based on the pro-rata percentage applied algebraic aggregate i.e. 'AX+BY+CZ'. | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.3.3 | Average Annual Turnover | <p>(i) The minimum requirements to 'Pass' this criteria is that the Average Annual Turnover for the last five financial years for S&TC System Contractor only (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2021 (by assuming 5% escalation for Indian Rupee and 2% for foreign currency per year) shall not be less than INR 1520 Million.</p> <p>(ii) The value of annual turnover shall be calculated as total certified payments received</p> | Must meet requirement | Must meet requirement | Must meet 25% of the requirement | Must meet 40% of the requirement | Form FIN-3.3 |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | <p>for Contracts in progress and/or completed, within last Five Financial years divided by Five years.</p> <p>(iii) The financial year as applicable in the country of origin of the bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.03.2021.</p> <p>(iv) In case of a Joint Venture/Consortium, the above evaluation will be done in totality after applying pro-rata percentage participation of each</p> | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | member and not as individual member. For e.g., if there are three members in a Joint Venture/Consortium with pro-rata percentage participation of 'A%', 'B%' and 'C%' and the Average Annual Turnover of the respective members are 'X', 'Y' and 'Z', then the evaluation for the above criteria will be based on the pro-rata percentage applied algebraic aggregate i.e. 'AX+BY+CZ'. | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.3.4 | Available Bid Capacity | <p>The Bidders will be qualified only if their available bid capacity is more than 1775 Million INR.</p> <p>The methodology to meet this criteria is defined on the corresponding form.</p> | Must meet requirement | Must meet requirement | N/A | N/A | Form FIN-3.4 |
| | | | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.4 Construction Experience | | | | | | | |
| 1.4.1 | General Experience | <p>Experience under construction Contracts in the role of Prime Contractor (Single entity or JV/Consortium member), Sub-Contractor, or Management Contractor¹ for at least the last 10 years ending last day of the month previous to the month of tender submission.</p> <p>For foreign companies, this experience shall be outside the country of origin of the Bidder.</p> | Must meet requirement | N/A | Must meet requirement | N/A | Form EXP-4.1 |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.4.2 (a) | Specific Experience | <p>A minimum number of similar² Contract(s) that have been satisfactorily and substantially³ completed as a Prime Contractor (single entity or JV member⁴), Sub-Contractor or Management Contractor for at least the last 10 years ending last day of the month previous to the month of tender submission, as follows -</p> <p>01 (ONE) Works similar to “Design, Manufacture, Supply, Installation, Testing and Commissioning of Signaling and Train Control System with radio</p> | Must meet requirements | Must meet requirements ⁵ | N/A | N/A | Form EXP-4.2 (a) |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | <p>based CBTC Signalling system with moving block principle for Metro Rail Projects” of at least 23 route KM section.</p> <p>OR</p> <p>02 (TWO) Works similar to “Design, Manufacture, Supply, Installation, Testing and Commissioning of Signaling and Train Control System with radio based CBTC Signalling system with moving block principle for Metro Rail Projects” of at least 14 route KM section.</p> | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | <p>OR</p> <p>03 (THREE) Works similar to “Design, Manufacture, Supply, Installation, Testing and Commissioning of Signaling and Train Control System with radio based CBTC Signalling system with moving block principle for Metro Rail Projects” of at least 11 route KM section.</p> <p>For foreign companies, at least 01 Work experience shall be outside the country of origin of the Bidder.</p> | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|-----------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.4.2 (b) | Specific Experience in Key Activities | <p>For the above and any other Contracts completed and under implementation as Prime Contractor, Joint Venture member, Management Contractor or Sub-Contractor⁶, a minimum experience in the following key activities must be satisfactorily and substantially completed⁷:</p> <p>(I) In at least 01 (ONE) completed work the following must have been executed:</p> <p>(i) CBTC System works including ATP, ATO,</p> | Must meet requirements | Must meet requirements | N/A | N/A | Form EXP-4.2 (b) |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | DTO/UTO. (ii) OCC and ATS works including scheduling and timetabling. (iii) Computer based Interlocking. (iv) Depot works. (v) Trackside work – AFTC/Axle Counters/Signals/Point machines. (A) In above completed work – CBTC/ ATP and CBI subsystem shall be from Bidder as a Contractor or JV/ Consortium | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|-------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | <p>partner.</p> <p>(B) At least 02 (TWO) CATC works (at least one with CBTC) satisfactorily completed.</p> <p>For foreign companies, at least 01 (ONE) such work should be outside the country of origin of the Bidder.</p> <p>(C) Experience of integration of all major Signalling subsystems (Interlocking, ATP, ATS and Radio based CBTC) in at least one Signalling and Train Control System project.</p> | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | (D) Experience of integration with systems (Signalling, Rolling Stock, PSD) in at least one Signalling and Train Control Systems project. | | | | | |
| <p>¹ A management contractor is a firm which takes on the role of contract management as a “general” contractor of sort could do. It does not normally perform directly the work(s) associated with the Contract. Rather, it manages the work of other (sub) contractors while bearing full responsibility and risk for price, quality, and timely performance of the contract.</p> <p>² The similarity shall be based on the physical size, complexity, methods/technology and/or other characteristics described in Employer’s Requirements. Summation of number of small value contracts (less than the value specified under requirement) to meet the overall requirement will not be accepted.</p> <p>³ Substantial completion shall be based on 80% or more works completed under the Contract.</p> <p>⁴ For Contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder’s share, by value, shall be considered to meet this requirement.</p> | | | | | | | |

| Criteria | | | Requirements | | | Submission Requirements | |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | | Lead Member |
| <p>⁵ In case of a JV, the value of Contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single Contract has been met. Instead, each Contract performed by each member shall satisfy the minimum value of a single Contract as required for single entity. In determining whether the JV meets the requirement of total number of Contracts, only the number of Contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.</p> <p>⁶ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share shall be counted to meet this requirement.</p> <p>⁷ Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period. The rate of production shall be the annual production rate for the key construction activity (or activities).</p> <p>Notes:-</p> <p>(1) In case of postponement(s) in 'date for bid submission', if any, twenty-eight days prior to postponed 'date for bid submission' shall be considered.</p> <p>(2) Work experience of only substantial partner (partner with share of 26% or more in the JV / Consortium) shall be considered for evaluating of JV/Consortium.</p> <p>(3) Value of successfully completed portion of any ongoing work up to last day of tender submission will also be considered for qualification of work experience criteria, provided that at least 80% of the Contract value of work is completed (including at least one operational section), duly certified by the Employer/Engineer.</p> | | | | | | | |

| Criteria | | | Requirements | | | Submission Requirements | |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | | Lead Member |
| | | (4) For completed works, value of work done shall be updated to last day of the month previous to the month of tender submission price level assuming 05% inflation for Indian Rupees every year and 02% for foreign currency portions per year. The exchange rate of foreign currency shall be applicable 28 days before the date for bid submission. | | | | | |
| | | (5) In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of Bid, otherwise the Bidder shall be treated as non-responsive. | | | | | |
| | | (6) Participation by Subsidiary Company / Parent Company with credential of other Company: | | | | | |
| | | a) Bidder in the capacity of a Subsidiary Company as a single entity is not permitted to use the credential of its Parent Company and/or its Sister Subsidiary Company/ Companies unless the Bidder participates in tender as JV/Consortium with its Parent Company and/or its Sister Subsidiary Company/ Companies as a member(s) in JV/Consortium with minimum 26% participation each (as substantial member) for such member(s). | | | | | |
| | | b) Bidder in the capacity of a Parent Company as a single entity is not permitted to use the credential of its Subsidiary Company/ Companies unless the Bidder participates in tender as JV/Consortium with its Subsidiary Company/ Companies as a member(s) in JV/Consortium with minimum 26% participation each (as substantial member) for such member(s). | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.5 Environmental and Social and Health and Safety (ESHS) Experience and Capacity | | | | | | | |
| 1.5.1 | ESHS Certification (s) | Availability of a valid ISO certification or internationally recognized equivalent (equivalence to be demonstrated by the Bidder) applicable to the work/site. | Must meet requirement | N/A | N/A | Must meet requirement | Form CER and supporting certificates |
| | | Quality Management certificate ISO 9001 | | | | | |
| | | Environmental management certificate ISO 14001 | | | | | |
| | | Health and safety management certificate OHSAS 18001 OR ISO 45001 | | | | | |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| 1.5.2 | ESHS Documentation | <p>Availability of in-house policies and procedures acceptable to the Employer for ESHS management:</p> <p>1. Existence of a system for monitoring compliance with ESHS commitments for the Bidder's Subcontractors and all its partners.</p> <p>2. Existence of official company procedures for the management of the following relevant points:</p> <p>a) Health & Safety on worksites; b) Traffic management; c) Hazardous products;</p> | Must meet requirement | N/A | N/A | Must meet requirement | <p>(1) The ESHS Ethics Charter of the company or equivalent must be provided.</p> <p>(2) A procedure or information on how the Bidder ensures that all members of the Joint Venture,</p> |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | d) Wastewater (effluents); e) Atmospheric emissions, noise and vibrations; f) Waste management; g) Control of infectious and communicable diseases (HIV/AIDS, malaria, etc.). | | | | | subcontractors, suppliers and temporary labor (i) are aware and (ii) meet ESHS requirements must be provided. (3) Official internal procedure documents on the topics indicated must be |

| Criteria | | | Requirements | | | | Submission Requirements |
|----------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | | | | | | provided. |
| 1.5.3 | ESHS Experience | Experience of one (01) Contracts over the last ten (10) years, where major ESHS measures were carried out or are on progress satisfactorily and in compliance with international standards. | Must meet requirement | N/A | N/A | Must meet requirement | Form EXP-ESHS with supporting documents (the bidder shall submit a piece of evidence supporting the ESHS implementation measures) |
| 1.5.4 | Specific ESHS Knowledge Transfer | Experience of one (1) Contract in developing / emerging countries over the last five (5) years in | Must meet requirement | N/A | N/A | Must meet requirement | Form EXP-ESHS with supporting |

| Criteria | | | Requirements | | | | Submission Requirements |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | Experience | which the ESHS knowledge transfer to a local partner or the ESHS capacity building of the Employer's country staff was carried out satisfactorily. | | | | | documents (the bidder shall submit a piece of evidence supporting the ESHS implementation measures) |
| 1.5.5 | ESHS Dedicated Personnel | Availability of in-house personnel dedicated to ESHS issues: Environmental and Social Manager, and/or Health and Safety Manager. | Must meet requirement | N/A | N/A | Must meet requirement | Organizational chart evidencing filled ESHS position(s) |

| Criteria | | | Requirements | | | | Submission Requirement s |
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| No. | Subject | Requirement | Single Entity | JV/Consortium (existing or intended) | | | |
| | | | | All Parties Combined | Each Member | Lead Member | |
| | | (In case bidder do not have in-house personnel for any of ESHS requirements, they should propose independent agency to carry out activities that meeting certification requirements of 1.5.1 & 1.5.2.) | | | | | |

2. Evaluation of Technical Bid (i.e. Envelope - 2) :

Completeness and responsiveness of the Technical Bid will be assessed according to the documents submitted in accordance to ITB 11 and Responsiveness Criteria of ITB 33.

If the environmental and social risks are evaluated as high and/or impacts as significant, and therefore, the Bidding Documents include ESHS Specifications, then the technical proposal shall comprise an ESHS Methodology. The ESHS Methodology submitted by the Bidder shall be evaluated to determine whether it is substantially responsive (i.e. without material deviation, reservation or omission) to the requirements specified in Section VII - Works Requirements - ESHS Specifications/ SHE document. The Bidder shall use the ESHS Methodology Form provided for this purpose in Section IV - Bidding Forms - Technical Proposal. A Bid not comprising an ESHS Methodology or a Bid for which the ESHS Methodology is not substantially responsive (i.e. with material deviation, reservation or omission) shall be rejected.

In addition, the following criteria shall also apply:-

2.1 Subcontractors:

Subcontractors for the following major items of supply or services must meet the following minimum criteria, herein listed for that item, with due submission of Form SUB-1 and 2 for each item. The Bidder is responsible for ensuring that the Subcontractor complies with the requirements of ITB 4 and 5 and meets the minimum criteria listed above for that item.

S&TC sub-system - Computer Based Interlocking and Automatic Train Protection system (both Onboard & Wayside) shall not be Sub-contracted.

| Item No. | Description of Item | Similar Work | Minimum Criteria to be met | Requirement |
|----------|---------------------|--------------------------------------|-------------------------------------|-----------------------|
| 1 | Installation Works | Similar work of Design, Manufacture, | At least one work incorporating the | End User/ Proven-ness |

| | | | | |
|---|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Supply, Installation, Testing and Commissioning of Signalling and Train Control System for Metro Rail Projects/ Suburban Rail/ LRT/ High Speed Rail Network of at least 15 Kms, satisfactorily completed and in Operation for at least the last 10 years ending last day of the month previous to the month of tender submission. | Installation Works. | certificate of working satisfactorily [outside the country of origin for foreign company] in a Metro Rail/ Suburban Rail/ LRT/ High Speed Rail system. |
| 2 | Mechanical Items (like racks/cabinets, junction boxes, poles, masts, etc.) | | At least one work incorporating the Mechanical Items. | |
| 3 | Uninterrupted Power Supply (UPS) and VRLA batteries | | At least one work incorporating the UPS equipment. | |
| 4 | Any other important item | | At least one work incorporating the item. | |

Failure to comply with this requirement may result in the rejection of the Subcontractor.

In case the Bidder does not wishes to Subcontract above item(s), suitable Manufacturers/Vendors shall be listed for the same, if required.

2.2 Manufactureres/Vendors:

In the case of a Bidder who offers to supply and install major items of supply under the Contract that the Bidder did not manufacture or otherwise produce, the Bidder shall provide the manufacturer's authorization, using the form provided in Bidding Forms, showing that the Bidder has been duly authorized by the manufacturer or producer of the related plant and equipment or component to supply and/or install that item in the Employer's country. The

Bidder is responsible for ensuring that the Manufacturer or producer complies with the requirements of ITB 4 and 5 and meets the minimum criteria listed above for that item.

Manufacturers/Vendors for the following major items of supply or services must meet the following minimum criteria, herein listed for that item, with due submission of Form MAN for each item.

| Item No. | Description of Item | Similar Work | Minimum Criteria to be met | Requirement |
|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Servers, Workstations and Networking equipment for ATS and onboard CCTV streaming | Similar works of Design, Manufacture, Supply, Installation, Testing and Commissioning of Signalling and Train Control System for Metro Rail Projects/Suburban Rail/LRT/High Speed Rail Network of at least 15 Kms section, satisfactorily completed and in Operation for at least the last 10 years ending last day of the month previous to the month of tender submission. | Supply in at least one similar work. | End User/ Provenness certificate of working satisfactorily [outside the country of origin for foreign company] in a Metro Rail/ Suburban Rail/ LRT/ High Speed Rail system. |
| 2 | Digital Axle Counter | | | |
| 3 | Electric Point Machines (Depot and Mainline) | | | |
| 4 | Signal LED /Relays | | | |
| 5 | Signalling cables, Power cables and Optical Fiber cables | | | |
| 6 | Power Distribution Cubicles | | | |
| 7 | Any other important equipment | | | |

Failure to comply with this requirement may result in the rejection of the Manufacturer/Vendor.

2.3 Personnel :

The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements:

| No. | Position | Total Work Experience (years) | Experience in Similar Works (years) |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------|
| 1 | Project Manager (<i>to be Contractor's Representative under GC 4.3</i>) | 15 | 10 |
| 2 | Deputy Project Manager <i>e.g. Chief Engineer(s)/ Resident Engineer / Interface Manager</i> | 10 | 5 |
| 3 | Design Manager | 10 | 5 |
| 4 | Signalling Design Engineers | 10 | 5 |
| 5 | Testing and Commissioning Engineer / Manager | 10 | 5 |
| 6 | Quality Assurance Specialist / Manager | 10 | 5 |
| 7 | Health and Safety Manager / Officer | 10 | 5 |
| 8 | Installation Specialist / Manager | 10 | 5 |
| 9 | RAMS Expert | 10 | 5 |
| NOTE: Diploma with 5 years additional experience in relevant field will be considered equivalent to degree. | | | |

The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 given in Bidding Forms, Section IV.

3. Evaluation of Financial Bid (i.e. Envelope - 3) :

Completeness and responsiveness of the Financial Bid will be assessed according to the Responsiveness Criteria of ITB 37. In addition, the Bidders shall submit Appendix F given in Price Schedules, Section IV to meet the monthly cash flow requirement for this Bid.

END OF SECTION-III