

BIDDING DOCUMENTS

FOR

**DEVELOPMENT AND CONSTRUCTION OF STABLING YARD (INDRODA DEPOT)
AT INDRODA CIRCLE INCLUDING ASSOCIATED E&M WORKS IN CONNECTION
WITH AHMEDABAD METRO RAIL PROJECT PHASE - 2**

IFB NO. GMRC/CONS/STABLING YARD/PH-2/2024

PART-I BIDDING PROCEDURE

**SECTION-III – EVALUATION AND QUALIFICATION
CRITERIA**

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

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Section III – Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate Bids and qualify Bidders. In accordance with ITB 29, 35, 36 and ITB 37. The Bidder shall provide all the information requested in the forms included in Section IV - Bidding Forms.

Evaluation of Initial Filter cum Qualification Requirement (i.e. Envelope - 1)**1. Evaluation of Eligibility and Qualification**

1.1 Eligibility						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.1.1 Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1 and ELI-1.2, with attachments
1.1.2 Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of IFcQR Bid
1.1.3 AFD Eligibility	Not being ineligible to AFD financing, as described in ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Statement of Integrity (appendix to Letter of Bid)
1.1.4 State-Owned Entity	Meet conditions of ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1 and ELI-1.2, with attachments

1.2 Historical Contract Non-Performance						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.2.1 History of Non-Performing Contracts	Termination of a contract ¹ did not occur as a result of Bidder's default in the past five (5) years ¹ .	Must meet requirement ² .	Must meet requirement	Must meet requirement ²	N/A	Form CON-2
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	Must meet requirement	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.	Must meet requirement	N/A	Must meet requirement	N/A	Form CON-2.1
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-2.2

¹ Non-performance shall include all terminations of contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism.

² This requirement also applies to contracts executed by the Bidder as JV member.

1.3 Financial Situation and Performance						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.3.1 Financial Capabilities	<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 assets, lines of credit and other financial means to meet cash flow INR 188.00 million / INR 18.80 Crore 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 Sheets) are negative, only the Banking references will be considered.</p>	Must meet requirement	Must meet requirement	N/A	N/A	Forms FIN-3.1 and FIN-3.3

1.3 Financial Situation and Performance						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
	<p>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 188.00 million available: Pass</p> <p>Liquidity of INR 188.00 million not available: Fail</p> <p>In case of a Joint Venture/Consortium, the above evaluation will be done in totality after applying pro-rata percentage participation of each 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'.</p>					

<p>1.3.2 Minimum Annual Turnover</p>	<p>(i) The minimum requirements to 'Pass' this criteria is that the Average Annual Turnover for the last five financial years for Construction works only (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2024. by assuming 5% escalation for Indian Rupee and 2% for foreign currency per year) shall not be less than INR 1130.00 million / INR 113.00 Crore.</p> <p>(ii) The value of annual turnover shall be calculated as total certified payments received 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 31.03.2024.</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 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</p>	<p>Must meet requirement</p>	<p>Must meet requirement</p>	<p>Must meet <i>[twenty five]</i> per cent <i>[25%]</i> of the requirement</p>	<p>Must meet <i>[forty]</i> per cent <i>[40%]</i> of the requirement</p>	<p>Form FIN-3.2</p>
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1.3 Financial Situation and Performance						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
	be based on the pro-rata percentage applied algebraic aggregate i.e. 'AX+BY+CZ'.					
1.3.3 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 3 of the last 5 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 31.03.2024.	Must meet requirement	N/A	Must meet requirement	N/A	Form FIN-3.1
1.3.4 Bid Capacity	As per below mentioned methodology.	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN-3.4, Form FIN 3.5

1.3 Financial Situation and Performance						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
<u>Methodology for Working out the Available Bid Capacity</u>						
<p>The Bidders will be qualified only if their available bid capacity is more than INR 1130.00 million. Available bid capacity will be calculated as under:</p> <p>Available Bid Capacity =2AN-B</p> <p>Where,</p> <p>A = Maximum value of Construction works in any one (1) year during the last five (5) years as certified by Chartered Accountant and as contained in the corresponding Audited Annual account Statement/Book of accounts of the concerned financial year to be considered and will be updated to 31.03.2024 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. (Refer Form : FIN 3.2)</p> <p>N = No. of years in which supply and commissioning is to be made (N = 1.5 years, [18/12] in this case)</p> <p>B = Value [at price level as on the twenty-eight days prior to 'date for Bid submission' (refer Forms of Bid -Form Fin 3.4)] of existing commitments and on-going works (works in hand) to be completed during next "N" years starting from the twenty-eight days prior to 'date for Bid submission'.</p> <p>Note:</p> <p>In case of a Joint Venture/Consortium, the above formula will be applied to each member to the extent of his proposed percentage (%) participation in the execution of the work. The Bid Capacity of the Joint Venture/Consortium will be the sum total of the Bid Capacity of each member of the Joint Venture/Consortium as calculated above.</p> <p>Value of 'A':</p> <p>The maximum value of Construction works in any one year during last five (5) years ('A' in the above formula) shall be the maximum turnover in any one (1) financial year during the last five (5) financial years. Financial year as applicable in the country of origin of the bidders would be considered. The turnover of Construction works to be furnished in response to Section-IV A: Bidding Forms-Bidder's Qualification Form: Form FIN-3.2 shall be considered for evaluating the value 'A' in above formula and the details furnished by the Bidder shall be supported with audited copies, duly certified by Independent chartered accountant/CPA, indicating Annual turnover of Construction works only.</p> <p>Value of 'B':</p> <p>The value of existing commitments and ongoing works (works in hand) ('B' in the above formula) as furnished in response to Section-IV A: Bidding Forms-Bidder's Qualification Form: Form FIN-3.4 and FIN-3.5 shall be considered. The 'twenty-eight days prior to date for Bid submission' means for e.g: Say, if 'date for Bid submission' is 15.01.2020, then 'twenty-eight days prior to date for Bid submission' will be 18.12.2019 and next 3 years period will be period upto 17.12.2022.</p>						

1.4 Experience						
Criterion	Requirements	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.4.1 General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, subcontractor, or management contractor for at least last Five (5) years ending last day of the month previous to the month of tender submission.	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP-4.1
1.4.2 (a) Specific Construction & Contract Management Experience	<p>The tenderers will be qualified only if they have successfully completed similar work(s), as a prime contractor, joint venture member, management contractor or subcontractor completion date(s) of which falling during last seven years ending last day of the month previous to the month of tender submission as given below :</p> <p>(i) At least one "similar work"* of value of Rs 90.00 crore or more OR (ii) Two "similar works"* each of value of Rs.56.00 crore or more. OR</p>	Must meet requirement	Must meet requirement ³	N/A	N/A	Form EXP-4.2(a)

³ In the 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. For instance, if the criterion mentions "two (2) contracts with a minimum value of 50M\$ each", a JV composed of 3 members and having carried out four (4) contracts of 30M\$ each shall not be qualified. On the other hand, if 2 of the 3 members of the JV each carried out one (1) contract of 50M\$, the criterion is met, even if the third member does not have any contract of this value.

1.4 Experience						
Criterion	Requirements	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
	<p>(iii) Three "similar works"* each of value of Rs. 45.00 crore or more.</p> <p>The "similar works" means any of the following works:</p> <p>*"Similar works"* means the work of Pre engineering Building / Prefabricated steel structures, other Building works for Metro Depots / Railway workshop / Railway yards / Metro stations / Airport, Commercial, Hospital and Industrial buildings (which includes spans > 10M) / Viaduct Construction (In Bridge, Flyover with spans > 10M).</p> <p>If the tenderer is a JV/Consortium having foreign partner(s) and above work(s) have been executed by the foreign partner of JV/Consortium and the work(s) were done in the country of the foreign partner, then in addition to this the foreign partner must have executed works (which need not be similar in nature) of total put together of value INR 45.00 crore or more outside the country of the foreign partner.</p>					

Criterion	Requirements	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.4.2 (b) Specific Experience	<p>The tenderer should have executed minimum one work of ;</p> <p>(i) Earth work in embankment on National Highways / State highways / Express highways or for Railway tracks, Metro work of value not less than 1.80 Cr. and one of</p> <p>(ii) E&M Works of value not less than 9.0 Cr for Metro Depots / Railway workshop / Railway yards / Metro stations / Airport, Commercial, Hospital and Industrial buildings (which includes spans > 10M).</p> <p>during the last seven years ending last day of the month previous to the month of tender submission.</p> <p>In case, if tenderer(s) doesn't possess the above experience on their own, they have to propose designated sub-contractor(s), fulfilling the above criteria, with necessary details in the "Form - 4.2 (b)" of IFcQR.</p>	Must meet requirement	Must meet requirements			Form EXP-4.2(b)

Notes:

- i. 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. Lead member must have a minimum of 26% participation in JV/ Consortium. Each other partners should have a minimum of 20% participation in the JV/Consortium. The lead partner in case of JV/Consortium, shall be one who has experience of executing at least one “similar work” of value of INR 45.00 crore or more similar nature as defined in clause 1.4.2 (a) of Section III.
- ii. 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.
- iii. The similarity shall be based on the physical size, complexity, methods/technology and/or other characteristics described in Section VI, 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.
- iv. Value of successfully completed portion of any ongoing work up to last day of the month previous to the month of tender submission will also be considered for qualification of work experience criteria, provided at least 70% of the Contract value of work is completed. The details to be furnished in Exp. 4.2 (B) along with the Engineer / Employer’s certificate and other requisite details as mentioned in Tender Document. The Engineer / Employer’s certificate for ongoing works should not be older than three months from the tender submission date.

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 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. The exchange rate of foreign currency shall be applicable 28 days before the submission date of tender.

- v. Substantial completion shall be based on 70% or more works completed under the Contract.
- vi. For contracts under which the Bidder participated as a JV member, only the Bidder’s share, by value, shall be considered to meet this requirement. 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 member each of value equal or more than the minimum value required shall be aggregated.

- vii. For Contracts under which the Bidder participated as a JV member or Subcontractor, only the Bidder's share shall be counted to meet this requirement.
- viii. The tenderer shall submit details of works executed by them in the Form EXP 4.2(b) for the works to be considered for qualification of work experience criteria. Documentary proof of completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. The offers submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A., T.D.S certificates for all payments received and copy of final/last bill paid by client shall also be submitted. The offers submitted without this documentary proof shall not be evaluated.
- ix. In case of Joint venture / consortium, full value of the work, if done by the same joint venture shall be considered. If the qualifying work(s) were done by them in JV/consortium having different constituents then the value of work as per their percentage participation in such JV/Consortium shall be considered.
- x. In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of application otherwise the applicant shall be treated as nonresponsive.
- xi. Participation by Subsidiary Company / Parent Company with credential of other Company.
 - a) Applicant 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 Applicant 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) Applicant 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 Applicant 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).
- xi. Partners having less than 26% participation will be termed as non-substantial partner and will not be considered for evaluation which means that their financial soundness and work experience shall not be considered for evaluation of JV/Consortium. However, in this tender for Civil works, a JV/Consortium to qualify, each of its partner (including non-substantial partners) must have experience of executing at least one Civil Work of minimum INR 22.50 Crore in last 07 years. The tenderer shall submit details of above works executed by them in the Form EXP 4.2 (a).

1.5 Environmental, Social, Health and Safety (ESHS) ⁴						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
1.5.1 ESHS Certification(s)	Availability of a valid ISO certification or internationally recognized equivalent (equivalency to be demonstrated by Bidder), and applicable to the worksite: <ul style="list-style-type: none"> • Quality management certificate ISO 9001⁵; • Environmental management certificate ISO 14001⁶; • Health and safety management certificate ISO 45001/ OHSAS 18001⁷. 	Must meet requirement	N/A	N/A	Leader must meet requirement	Form CER Form CER Form CER
1.5.2 ESHS Documentation	Availability of in house policies and procedures acceptable to the Employer for ESHS management: <ol style="list-style-type: none"> 1. Existence of an Ethics Charter; 	Must meet requirement	N/A	N/A	Leader must meet requirement	1. The ESHS Ethics Charter of the company or equivalent must be provided. 2. A procedure or information on how the Bidder ensures that all members of the Joint Venture,

⁴ [Those ESHS qualification criteria may be reduced or deleted if the worksites management is of minor Environmental, Social, Health and Safety impact.]

⁵ [The ISO 9001 certification covers the principles of quality management, including a strong customer focus, motivation and commitment of management, process approach and continuous improvement. **This certification is to be required in case of complex organization of the worksite.**]

⁶ [The ISO 14001 certification defines the criteria for an environmental management system. **This certification is to be required in case of environmental issues of the worksite.**]

⁷ [The ISO 45001/ 18001 certification defines a management system for health and safety at work with the overall objective of preventing the occurrence of work related injuries and diseases among workers and providing safe and healthy workplaces. **This certification is to be required in case of health and safety issues.**]

1.5 Environmental, Social, Health and Safety (ESHS) ⁴						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
	2. Existence of a system for monitoring compliance with ESHS commitments for the Bidder's subcontractors and all its partners; 3. Existence of official company procedures for the management of the following relevant points: <ul style="list-style-type: none"> • Health & Safety on worksites; • Traffic management; • Hazardous products; • Wastewater (effluents); • Atmospheric emissions, noise and vibrations; • Waste management; • Control of infectious and communicable diseases (Covid 19, HIV/AIDS, malaria, etc.); • Prevention and Management of Gender 					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 provided.

1.5 Environmental, Social, Health and Safety (ESHS) ⁴						
Criterion	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
			All Parties Combined	Each Member	One Member	
	based violence/sexual harassment					
1.5.3 Similar Experience	Experience of two construction contracts over the last seven 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	Leader 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 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). 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 Responsiveness Criteria of ITB 33. In addition to the criteria listed in ITB 11.3 (a) to (aa), the following criteria shall apply in evaluation of technical bid

2.1 Personnel:

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

Sr. No.	DESIGNATION	Minimum no. of Project-Personnel required #	QUALIFICATION	EXPERIENCE LEVEL
1.	Project Manager (Team Leader)	1	Graduate in Civil Engg.	Minimum total experience of 20 yrs. out of which, minimum 10 years as In-charge of similar works
2.	Deputy Project Manager (incl. 1 for E&M)	2	Graduate in Civil Engg./ Electrical Engg./ /Diploma in Civil Engg./ Diploma in Electrical Engg.	Minimum total experience of 12 yrs. For Degree of and 15 Yrs. for Diploma and out of which 5 Yrs. in similar works.
3.	Interface Manager (incl. 1 for E&M)	2	Graduate in Engineering.	Total Minimum experience of 10 years out of which minimum 3 years in similar works.
4.	Planning Manager	1	Graduate in Civil Engg. With knowledge in MS project/Primavera software	Total Minimum experience of 15 years out of which minimum 5 years in Planning of projects.
5.	Structural/Design Engineer	1	Post-Graduation in concerned Discipline.	Total minimum experience of 15 years out of which minimum 10 years' experience in relevant field.
6.	Sr. Civil Engineer	4	Graduate or Diploma in Civil Engineering	Minimum 10 years for Degree & 12 years for Diploma
7.	Structural Fabrication Engineer	1	Graduation in concerned Discipline	Total minimum experience of 10 years out of which minimum 05 years' experience in relevant field.
8.	Geotechnical Engineer	1	Post-Graduation in concerned Discipline	Total minimum experience of 05 years out of which minimum 03 years' experience in relevant field.
9.	Quality Assurance Engineer/ Quality Control Specialist	1	Graduate in Civil Engg. /Diploma in Quality Assurance	Minimum total experience of 12 yrs. For Degree of and 15 Yrs. for Diploma and out of which 5 Yrs. in

Sr. No.	DESIGNATION	Minimum no. of Project-Personnel required #	QUALIFICATION	EXPERIENCE LEVEL
				similar works.
10.	Chief Safety Manager	2**	Graduate or Diploma in Construction Safety	Minimum 10 years for Graduate & 12 years for Diploma in relevant field
11.	Chief Environment Officer	1**	Post-Graduation in concerned Discipline	Total minimum experience of 05 years out of which minimum 03 years' experience in relevant field.
12.	Senior Surveyor	2	Diploma/ ITI	Minimum 10 years for Diploma & 15 years for ITI
13.	Autocad Manager	1	Diploma/ ITI	Minimum 10 years for Diploma or 15 years for ITI.
14.	Document Controller	1	Any Graduate	Minimum 07 years for any Graduate in relevant field, preferably in ISO standard documentation.
15.	E&M Manager	1	Graduate in concerned discipline	Total minimum experience of 11 years out of which minimum 04 years' experience in relevant field.
16.	Engineer (Fire Fighting)	1	Graduate in Electrical Engg./ Mechanical Engg.	Total minimum experience of 07 years out of which minimum 03 years' experience in relevant field.
17.	HVAC Engineer	1	Graduate in Mechanical Engg.	Total minimum experience of 07 years out of which minimum 03 years' experience in relevant field.
18.	Site Engineer (E&M)	1	Graduate in concerned discipline	Total minimum experience of 05 years out of which minimum 02 years' experience in relevant field.
19.	Electrical Engineer	1	Graduate Electrical Engg.	Total minimum experience of 07 years out of which minimum 03 years' experience in relevant field.
20.	Mechanical	1	Graduate in	Total minimum

Sr. No.	DESIGNATION	Minimum no. of Project-Personnel required #	QUALIFICATION	EXPERIENCE LEVEL
	Engineer		Mechanical Engg.	experience of 07 years out of which minimum 03 years' experience in relevant field.
21.	PHE Engineer	1	Graduate or Diploma in concerned discipline	Total minimum experience of 07 years out of which minimum 03 years' experience in relevant field.

NOTES:-

#The final deployment schedule will be submitted along with IWP (Initial work Programme) /DWP (Detailed work Programme) /, which should reach this minimum level specified as minimum. The penalty will not be imposed for first four months.

- I. The similar work for this contract shall mean experience in Metro / Railway / Other infrastructure projects having the similar nature of work as clarified in 1.4.2 (a). The resources will be deployed after prior approval of employer.
- II. The contractor shall deploy resources as per the above - mentioned minimum requirement and also confirm to deploy manpower over and above the minimum numbers indicated above, if the work requires so.
- III. The performance of project personnel deployed will be evaluated periodically by Employer during the contract period. In case the performance of any of the project personnel is not satisfactory, the Contractor shall replace them with good personnel immediately as per directions of the Engineer.
- IV. These minimum resources as per the requirements of various activities at different stages of works. All resources need not be mobilised simultaneously, resources as per the requirement of various stages of works shall be mobilised as per the agreed programme.
- V. In case of non- deployment of project personnel, the penalty shall be imposed for INR 1.5 Lacs per personnel and deducted from Contractor's running/ final bills. In case of non-deployment, for the part of the month, same shall be imposed on proportionate basis. The decision of the Engineer in this regard, shall be final and binding.

*Qualification and experience level of other safety/environment personnel should be as per conditions of Contract on Safety & Health and Environment

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

2.2 Equipment:

The Bidder must demonstrate that it can obtain (purchase, lease or rent) the key equipment listed hereafter:

SN	Type of equipment required for the work	Minimum no. of units of equipment required for the work	Maximum Permissible Age in Years
1	Construction Equipment		
a)	Piling Equipment Rotary Rig	1	10
b)	Fully Automatic and Computerized Batching Plant - 2 Nos. (Minimum 1 of 60 Cum/h and 1 of 30 Cum/h capacity) at Depot site with arrangement for water quality and temperature control.	2	10
c)	Concrete Boom placers	2	15
d)	Stationary concrete pumps with sufficient pipes	2	10
e)	Cranes of suitable capacity for site works	2	15
f)	Transit Mixtures	4	10
g)	Trailers for carrying precast elements	2	10
h)	Survey Instruments (Total station)	2	10
i)	Excavators of capacity 1 cum and more	3	10
j)	Small excavators/ JCB	4	10
k)	Bulldozer	2	15
l)	Tyre Mounted Grader	2	10
m)	Power Roller of minimum 10T capacity	4	10
n)	Site Laboratory fully equipped for Concrete / Soil testing.	As per requirement	With valid calibration certificate

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV - Bidding Forms.

Note :

1. These resources are for peak period of each activity. All plants and equipment need not to be mobilized simultaneously, plants and equipment as required as per the progress of the work shall be brought at site in advance as directed by the Engineer. The decision of the Engineer in this regard, shall be final and binding.
2. All the plant and equipment are allowed on site subjected to submission of Heavy Construction site Working Fitness cum Worthiness Certificate issued by Third Party Automobile / Mechanical Expert (As acceptable to Engineer).

MANDATORY TOOLS PROPOSED FOR THE E&M WORKS

MANDATORY TOOLS to be handed over 2 months prior to ROD of 1st section			
S. No.	DESCRIPTION	UNIT	Qty.
1	VACUUM CLEANER (With Extension)	Nos	2
2	AIR BLOWER	Nos	2
3	LED TORCH	Nos	2
4	LINE TESTER	Nos	2
5	CRIMPING TOOL	Nos	2
6	HACKSAW	Nos	2
7	TOOLS KIT	Nos	2
8	LUX METER	Nos	1
9	TONG METER	Nos	2
10	MAGNET	Nos	2
11	ROPE NYLON 50 METER	Nos	2
12	DRILL MACHINE with standard bits.	Nos	2
13	PLIER	Nos	2
A)	185 mm	Nos	2
B)	165 mm	Nos	2
14	MEGGER 1000V	Nos	2
15	MULTIMETER	Nos	2
16	EARTH TESTER	Nos	2
17	ALUMINIUM LADDER		
A)	4 FEET	Nos	2
B)	A TYPE	Nos	2
C)	20 TO 36 FEET EXTENDABLE	Nos	2
18	FIRST AID BOX	Nos	2
19	KEY BOX	Nos	2
20	SCREW DRIVER-6"	Nos	2

MANDATORY TOOLS to be handed over 2 months prior to ROD of 1st section			
S. No.	DESCRIPTION	UNIT	Qty.
21	SCREW DRIVER-8"	Nos	2
22	SCREW DRIVER-10"	Nos	2
23	SCREW DRIVER-12"	Nos	2
24	SCREW DRIVER SET	Nos	2
25	SPANNER KIT As per S.NO. 28 & 29	Nos	2
26	CROW PLIER	Nos	2
27	TORQUE WRENCH	Nos	2
28	D end SPANNER-6/7 TO 22/23,24/27,30/32	Nos	2
29	Ring SPANNER-6/7 TO 22/23,24/27,30/32	Nos	2
30	PIPE WRENCH	Nos	2
31	ADJUSTABLE WRENCH	Nos	2
32	HAMMER (2 Kg)	Nos	2
33	CHISEL FLAT	Nos	2
34	ALLEN KEY	Nos	2
35	SCISSOR	Nos	2
36	SPIRIT LEVEL	Nos	2
37	CLAMP METER	Nos	2
38	BOX SPANNER	Nos	2

UNDERTAKING:

1. We confirm to deploy resources as per the above-mentioned minimum requirement and also confirm to deploy plants & equipment over and above the minimum numbers indicated above, if the work requires so.
2. Hiring of Cranes shall be as per approved vendors for supply of cranes. The contractors are free to propose and utilize plant and machinery after getting approval from the Engineer. Third party certification as above of cranes, competency certification of the operators etc. would be required before grant of approval.

SIGNATURE OF AUTHORIZED SIGNATORY ON BEHALF OF TENDERER

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

3.1 Completeness and responsiveness of the Financial Bid will be assessed according to the Responsiveness Criteria of ITB 29. In addition to the criteria listed in ITB 35.2 (a) to (f), the following criteria shall apply in evaluation of financial bid.

3.2. Domestic Preference

3.2.1 A margin of preference of 7.5% (seven and one half per cent) shall be granted to domestic Bidders, in accordance with, and subject to, the following provisions:

- a) An individual firm is considered a Domestic Bidder for purposes of the margin of preference if it is constituted in the country of the Employer, has more than 50 percent ownership by nationals of the country of the Employer, and if it does not subcontract more than 30 percent of the contract price, excluding Provisional Sums, to foreign contractors. JVs are considered as domestic Bidders and eligible for domestic preference only if the individual member firms are constituted in the country of the Employer, have more than 50 percent ownership by nationals of the country of the Employer, and the JV shall be constituted in the country of the Borrower. The JV shall not subcontract more than 30 percent of the contract price, excluding Provisional Sums, to foreign firms. JVs between foreign and national firms will not be eligible for domestic preference.
- b) Bidders applying for such preference shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Employer and accepted by AFD, a particular Bidder or group of Bidders qualifies for a domestic preference;
- c) After Bids have been received and reviewed by the Employer, responsive Bids shall be classified into the following groups:
 - (i) Group A: Bids offered by domestic Bidders eligible for the preference;
 - (ii) Group B: Bids offered by other Bidders.

3.2.2 All evaluated Bids in each group shall, as a first evaluation step, be compared to determine the lowest Bid, and the lowest evaluated Bids in each group shall be further compared with each other. If, as a result of this comparison, a Bid from Group A is the lowest, it shall be selected for the award. If a Bid from Group B is the lowest, as a second evaluation step, all Bids from Group B shall then be further compared with the lowest evaluated Bid from Group A. For the purpose of this further comparison only, an amount equal to 7.5% (seven and one-half per cent) of the respective Bid price corrected for arithmetical errors, including unconditional discounts but excluding Provisional Sums and the cost of day works, if any, shall be added to the evaluated price offered in each Bid from Group B. If the Bid from Group A is the lowest, it shall be selected for award. If not, the lowest evaluated Bid from Group B based on the first evaluation step shall be selected.