

BIDDING DOCUMENTS

FOR

SUPPLY,INSTALLATION,TESTING AND COMMISSIONING OF E&M WORKS FOR 20 ELEVATED STATIONS – SARTHANA, NATURE PARK,VARCHA CHOPATI GARDEN AND SHRI SWAMINARAYAN MANDIR KALAKUNJ ON CORRIDOR-1 AND BHESAN, BOTANICAL GARDEN, UGAT VAARIGRUH, PALANPUR ROAD, L.P.SWANI SCHOOL, PERFORMING ART CENTRE, ADAJAN GAM, BADRI NARAYAN TEMPLE, ATHWA CHOPATI, MAJURA GATE, UDHANA DARWAJA, KAMELA DARWAJA, ANJANA FARM, MODEL TOWN, MAGOB, BHARAT CANCER HOSPITAL AND SAROLI ON CORRIDOR-2, IN CONNECTION WITH SURAT METRO RAIL PROJECT, PHASE-1, PACKAGE EM - 02

IFB No. GMRC/SYSTEM/SURAT/STNS/PKG - EM 02/PH-1/2022

PART-I BIDDING PROCEDURE

**SECTION–III, Qualification and
Evaluation 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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PART 1 – BIDDING PROCEDURES

Section III. Qualification and Evaluation Criteria

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1. Evaluation of Eligibility and Qualification, (Envelope – 1, Initial Filter cum Qualification Requirement - IFCQR Bid)

1.1 Completeness and Responsiveness of the Qualification Document

In addition to criteria listed in ITB 26.1, the following criteria shall apply.

1.2 Evaluation of Eligibility and Qualification

The following table contains all criteria and requirements the Bidders shall meet to be considered as eligible and qualified for the execution of the works and services:

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
1.2.1 Eligibility							
(a)	Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1, 1.2 with attachments
(b)	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
(c)	KfW Eligibility	Not being ineligible for KfW financing, as described in ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Declaration of Undertaking
(d)	Government-Owned Entity	Meet conditions of ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1, 1.2 with attachments
1.2.2 Historical Contract Non-Performance							
(a)	History of Non-Performing Contracts	Termination of a contract did not occur as a result of contractor's default in the past five (5) years	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON-2.1
(b)	Suspension Based on Execution of Bid Securing Declaration by	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.5	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of IFCQR Bid

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
	the Employer						
(c)	Pending Litigation	All pending litigation shall in total not represent more than one hundred percent (100%) of the Applicant's net worth and shall be treated as resolved against the Applicant	Must meet requirement	N/A	Must meet requirement	N/A	Form CON-2.1
(d)	Historical Debarment / Blacklisting/ Termination / Rescind	Bidder should not have been debarred by Government of India / any State Government in India as on the due date of submission of bid.	Must meet requirement	N/A	Must meet requirement	N/A	Form CON-2.2
Notes for the Bidder :							
<p>(i) Non-performance, as decided by the Employer, shall include all Contracts:</p> <p>(a) where non-performance was not challenged by the Contractor, including through referral to the dispute resolution mechanism under the respective Contract, and</p> <p>(b) that were so challenged but fully settled against the Contractor.</p> <p>Non-performance shall not include Contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective Contract and where all appeal instances available to the Applicant have been exhausted.</p>							
(ii) This requirement also applies to Contracts executed by the Bidder as a JV member.							
1.2.3 Financial Situation and Performance							
(a)	Financial Capabilities: Liquidity	(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.	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN-3.1 with attachments and FIN-3.3

Criteria			Requirements			Documentation Requirements / Forms	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member		One Member
		(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 170.00 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-3.3(b). In case the Net Current Assets (as seen from the Balance Sheets) are negative, only the Banking references will be considered. Otherwise the aggregate of the Net Current					

Criteria			Requirements			Documentation Requirements / Forms	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member		One Member
		<p>Assets and submitted Banking references will be considered for working out the Liquidity.</p> <p>Liquidity of INR 170.00 million available: Pass</p> <p>Liquidity of INR 170.00 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 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>					
(b)	Financial Capabilities: Other Sources	Not Used					

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
	of Finance						
(c)	Financial Capabilities: Financial Position	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 31.03.2021.	Must meet requirement	N/A	Must meet requirement	N/A	Form FIN-3.1 with attachments
(d)	Average Annual Construction Turnover	(i) The minimum requirements to 'Pass' this criteria is that the Average Annual Turnover for the last five financial years for Construction works, manufacture, supply and installation of equipment (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 1020 million.	Must meet requirement	Must meet requirement	Must meet [twenty five] [25]% of the requirement	Must meet [forty] [40]% of the requirement	Form FIN-3.2

Criteria			Requirements			Documentation Requirements / Forms	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member		One Member
		<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 31.03.2021 .</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 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'.</p>					

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
(e)	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

Methodology for Working out the Available Bid Capacity

The Bidders will be qualified only if their available bid capacity is more than INR 960.00 million. Available bid capacity will be calculated as under:

Available Bid Capacity = 2AN-B

Where,

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 31.03.2021 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year.

N = Number of years prescribed for completion of the present work (17 month / 12).

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'

Note:

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.

Value of 'A':

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.

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
Value of 'B':							
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 up to 17.12.2022.							
1.2.4 Construction Experience							
(a)	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
(b)	Specific Construction & Contract Management Experience	The tenderers will be qualified only if they have successfully completed work(s), 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; (i) At least one "similar work" work of value of INR 770.00 million or more. OR (ii) Two work each of value of INR 480.00 million or more.	Must meet requirement	Must meet requirements	N/A	N/A	Form EXP-4.2 (a)

Criteria			Requirements			Documentation Requirements / Forms	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member		One Member
		<p>OR</p> <p>(iii) Three works each of value of INR 380.00 million or more.</p> <p>The “Similar works” for this contract shall Supply and Execution of E&M work(s) of Metro station / Suburban Rail station / Railway stations / Airport terminal building / Commercial mall / IT park / Office complex / Hospital Building.</p> <p>E&M works include Electrical Distribution, HVAC and Fire Protection works.</p> <p>If any of the above work(s), does not include HVAC and/or Fire protection works the following Key experience requirement 1.2.4 (c) shall be met.</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 380 million or more outside the country of the foreign</p>					

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
		partner.					
(C)	Construction Experience in key activities	<p>For the above work(s), if it does not include HVAC and/or Fire protection works the following Key experience requirement shall be met.</p> <p>The tenderer should have executed minimum one work of following key activities;</p> <p>Key Activity 1:</p> <p>HVAC works of value not less than INR 35.00 million in Metro stations/ Sub-urban Rail Station / Railway Station /Airport Terminal Building/ Commercial mall/ IT park/ office complex/Hospital building, during the last seven years ending last day of the month previous to the month of tender submission.</p> <p>and one work of</p> <p>Key Activity 2:</p> <p>Fire Protection works of value not less than INR 50.00 million in Metro stations / Sub-urban Rail Station / Railway Station /Airport Terminal Building/ Commercial mall/ IT park/</p>	<p>Must meet requirement</p> <p>(can be subcontractor)</p>	<p>Must meet requirement</p> <p>(can be subcontractor)</p>	N/A	FORM 4.2(b) EXP	

Criteria			Requirements			Documentation Requirements / Forms	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member		One Member
		office complex/hospital building, during the last seven years ending last day of the month previous to the month of tender submission.					
		In case, if bidder(s) doesn't possess the above specific experience on their own as mentioned in 1.2.4 (c), they may propose designated sub-contractor(s), fulfilling the above criteria, with necessary details.					
Notes:							
<p>(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 partner must have a minimum of 26% participation in the 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 380.0 million or more similar nature as defined in clause 1.2.4 (b) of Section - III.</p> <p>(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.</p> <p>(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.</p> <p>(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 NIT/Tender Document. The Engineer / Employer's certificate for ongoing works should not be older than three months from the tender submission date.</p> <p>(v) 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</p>							

Criteria			Requirements			Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)		
				All Parties Combined	Each Member	
		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.				
(vi)		Substantial completion shall be based on 70% or more works completed under the Contract.				
(vii)		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 members each of value equal or more than the minimum value required shall be aggregated.				
(viii)		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.				
(ix)		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.				
(x)		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.				
(xi)		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 non-responsive.				
(xii)		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				

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
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).							
1.2.5 Environmental and Social and Health and Safety (ESHS) Experience and Capacity							
(a)	Certificates	Availability of a valid ISO certification as below or internationally recognized equivalent (equivalence to be demonstrated by the Applicant) <ul style="list-style-type: none"> - Quality Management certificate ISO 9001 - Environmental management certificate ISO 14001:2014 - Health and Safety certificate OHSAS 45001 / 18001 	Must meet requirement	N/A	Must meet requirement, if part in JV is substantial (more than 40 (forty) % of the works)	Must meet requirement	Form CER-5.1 Form CER-5.1 Form CER-5.1
(b)	Experience in Projects with significant ESHS Impact	For the above and any other contracts completed and under implementation as prime contractor, joint venture member, management contractor or subcontractor ¹ on or after the first day of the calendar year during the period stipulated in 1.2.5 (a) above, a minimum specific experience relating	Must meet Requirement	Must meet Requirement	N/A	Must have executed at least 01 contract demonstrating experience with the key ESHS requirements	Form EXP-5.2

¹ For contracts under which the Applicant participated as a joint venture member or sub-contractor, only the Applicant's share, by value, shall be considered to meet this requirement.

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
		to the following ESHS requirements ⁶ : (a) <i>Environment, Health & Safety Management for E&M works of Elevated Metro stations</i> (b) <i>Safety Measures for Track side working</i>					as listed in the Requirements column.
(c)	Environmental Capacity	The Applicant must demonstrate that its business setup and operations meet the minimum requirements towards an effective environmental management system: <ul style="list-style-type: none"> • ESHS Policy, • ESHS Procedures, • ESHS Staff organization • ESHS Training • ESHS Reporting 	Must meet Requirement	Must meet Requirement	N/A	N/A	Form ENV-5.3
(d)	Occupational Health and Safety Capacity	The Applicant must demonstrate that its business setup and operations meet the minimum requirements towards an effective health and safety management system	Must meet Requirement	Must meet Requirement	N/A	N/A	Form OHSAS-5.4
(e)	Socially Responsible Work Implementation	The Applicant must demonstrate a comprehensive understanding of the requirements regarding work site implementation and operation	Must meet Requirement	Must meet Requirement	N/A	N/A	Form LOC-5.5

Criteria			Requirements				Documentation Requirements / Forms
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			
				All Parties Combined	Each Member	One Member	
(f)	ILO Core Labor Standards	Undertaking to fully respect the ILO Core Labor Standards in the Applicant's business practice	Must meet requirement	N/A	Must meet requirement	N/A	Application Submission Form (f) and form COC-5.6
(g)	Ethical business principles	The Applicant must demonstrate that its business setup and operations meet the minimum requirements towards ethical Business principles.	Must meet Requirement	Must meet Requirement	N/A	N/A	Form COC-5.6
(h)	ESHS and Construction Personnel	The Applicant must demonstrate that it has access to adequate candidates for the ESHS personnel profiles, listed in Section VII, Scope of Works. The candidates must fulfill the minimum specific profile requirements and the general requirements (if any). Combining several candidates to fulfill one candidate profile is not allowed. Providing multiple candidates for a single profile is allowed. 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 1.2.5 (a) & (b).	Must meet Requirement	Must meet Requirement	N/A	N/A	PER-5.7

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

In addition to the criteria listed in ITB 30.2 a) to d), the following criteria shall apply:

Assessment of adequacy of technical proposal with requirements:

The assessment of the technical proposal submitted by a Bidder shall comprise (a) evaluation of the Bidder's technical capacity to mobilize key equipment and key personnel to carry out the Works, (b) construction method, (c) construction schedule and (d) sufficiently detailed supply sources, in accordance with requirements specified in Section VII Works Requirements.

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. 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.

Personnel:

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

S. No.	Designation	Minimum no. of Project-Personnel required #	Qualification	Experience Level
1.	Project Manager (Team Leader)*	1	Graduate in Electrical Engg.	Minimum total experience of 15 yrs out of which, minimum 05 years as In-charge of similar Works
2.	E&M Manager*	3	Graduate in Electrical/Mechanical Engg.	Minimum 12 years for Degree out of which with 05 year in similar work.
3.	Interface Manager*	1	Graduate in Engineering	Minimum 12 years for Degree out of which with 05 year in similar work.
4	Planning Manager*	1	Graduate in Engineering with knowledge in MS Project/Primavera software	Minimum 12 years for Degree out of which with 05 year in similar work.
5.	Quality Assurance (QA)- Engineer /Quality Control Specialist	1	Graduate in Electrical/Mechanical Engg. In Quality Assurance	Minimum 10^ years for Degree out of which with 05 year in similar work.

6.	Site Engineer (E&M)	9	Graduate in Electrical/Mechanical Engg.	Minimum 05 [^] years for Degree out of which with 02 year in similar work.
7.	Electrical Engineer	1	Graduate in Electrical Engg.	Minimum 07 years for Degree out of which with 03 year in similar work.
8.	Mechanical Engineer	1	Graduate in Mechanical Engg.	Minimum 07 years for Degree out of which with 03 year in similar work.
9.	HVAC Engineer	1	Graduate in Mechanical Engg.	Minimum 07 years for Degree out of which with 03 year in similar work.
10.	Fire Fighting Engineer	1	Graduate in Electrical/Mechanical Engg.	Minimum 07 years for Degree out of which with 03 year in similar work.
11.	Chief SHE & Social Manager	1	Graduate/Diploma in concerned discipline	Minimum 07 [^] years for Degree out of which with 03 year in similar work.

*The key positions shall be included into the project only after personal interview and approval by the Employer.

[^]For diploma holders additional experience of 05 years is required.

NOTES:-

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

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.

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.

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.

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.

Equipment:

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

Sr. no.	Construction Machinery	Minimum Requirement (No.)
1	Hot Spot Testing kit	1
2	Meggar/s (of suitable ratings)	3
3	Relay Testing kit (Primary and Secondary Testing kit)	1
4	Digital Tong Tester	1
5	Portable DG set (about 1.5kVA)	1
6	Cable Fault Locator	1
7	Cable laying drum trolley	As per requirement
8	Multimeters	10
9	Welding Machine/s	8
10	LUX Meter	1
11	Others to be listed by the Tenderer	---

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

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

3.1 Bidders to meet the criteria listed in ITB 36.2 (a) to (f)

3.2. Deleted

3.2.1 Deleted

3.2.2 Deleted