

INVITATION FOR BID (IFB)
(LOCAL COMPETITIVE BIDDING)

1.0 The Maharashtra State Electricity Transmission Company Limited Mumbai, herein after referred to as the 'Owner' (MSETCL) invites bids through SRM e-Tender in TWO bid system (Techno-commercial Bid & Price Bid) from eligible bidders in India having executed similar projects in transmission sector, for appointment of project management consultant for various ongoing and future projects of EHV Substations and Transmission lines of MSETCL in MSETCL, Maharashtra.

2.0 SCOPE OF WORK: - (RFx No. 7000024475)

The broad scope of work for old stuck-up projects and new projects would inter alia include the following aspects:

1. General Project Overview/Assessment:

The Project Management Consultant here in to be referred as 'PMC'

- 1.1. To undertake detailed study of assigned work for defining project vision, objectives, expected outcomes.
- 1.2. To review of physical performance, and adherence to timelines of project.
- 1.3. To facilitate MSETCL to obtain feedback on pain areas, areas for improvement, roles and responsibilities.
- 1.4. To review & report the fund utilization, and construction quality of completed work.

2. Technical & Financial Analysis:

2.1. Technical Analysis of project shall be based on following aspects :

- Transmission of electric power be economical while meeting the safety, security and reliability requirements.
- Environmental & geographical conditions and local regulations prevailing in the region where the projects are to be executed.
- Factors significantly influencing the design, construction and operation of these projects and right of way (RoW), weather conditions, conductor material and configuration, insulator design, tower geometry and designs, foundations and environmental considerations.
- Carry out the study to assess and determine the likelihood completion of project within stipulated timeline by MSETCL. The study should be conducted by analyzing all relevant factors such as technical, economic and legal considerations.
- Also, the consultant shall extend support in scrutinizing Quantity Variation (QV) and Extra Item proposals and offer justification on consideration of proposals or otherwise.

2.2. Financial (Economic) Analysis of the project shall be based on following aspects :

- Life Cycle Costing (LCC) assessing the cumulative cost of a project over its life time which is an important input for decision making in any or all phases of the project's useful life. LCC methodology should consider new technologies, environmental conservation, and infrastructure management, improving overall level of engineering, transmission network security and reliability.
- NPV analysis: The application of LCC to evaluate the cost of project involves some macro-economic factors which depend on the country's economy and changes from time to time. Net present value (NPV) analysis is a widely accepted form for LCC evaluation

which helps in analyzing alternatives for capital cost estimation. NPV can be defined as the present value of cash flows. The analysis is conducted for a pre-determined time span and discounted to the present cash flows with a discount rate.

- Break even analysis to determine the breakeven cost for the capital investment made for a specific project.

3. Cost benefit analysis:

- 3.1. Carry out the study to assess and determine the likelihood completion of project within stipulated timeline by MSETCL. The study should be conducted by analyzing all relevant factors such as technical, economic and legal considerations. Analyze and estimate the total projected cost, as well as make an estimate for alternative approaches by explaining new technologies. Prepare an evaluation and cost summary, including items such as Cost benefit analysis as well as return on investment (ROI).
- 3.2. After the completion of a detailed study and cost benefit analysis, PMC agency to report present stakeholders (MSETCL) regarding all aspects of the project to take suitable decisions. Preparing Preliminary Cost Estimates for the total balance scope of the project.

4. Risk analysis:

- 4.1. Identify major constraints and risk associated through complete risk analysis of project including technical, environmental and financial risks.
- 4.2. Provide risk handling techniques.
- 4.3. Responsible for risk assessment report and mitigation mechanism.

5. Methodology:

- 5.1. Identify factors that significantly contribute to delay in timely completion of the project.
- 5.2. Classify the potential causes or factors causing delay to project, rank the factors according to the priorities and various parties/stakeholders involved and explore the extent of their responsibilities. Establish the relationships between the delay factors and make recommendations for minimizing delays based on the outcome of the study.
- 5.3. Provide mitigation techniques to allow for the re-sequencing of the delayed activities by deploying advanced tools of project and contract management so as to have minimum possible disruption & adopt optimal usage of resources projected during the baseline tender.
- 5.4. RoW Support – Project Management Consultancy shall support MSETCL in RoW issues and in acquiring statutory NOCs like Forest/Railway/Highway/PTCC NOCs etc.
- 5.5. Legal Support – The consultancy shall provide legal support to MSETCL for arbitration cases and court cases and legal aspects of contract management issues like risk & cost works, Short Closure issues etc.
- 5.6. The PMC agency shall also extend support during various Govt. of Maharashtra meetings and internal review meetings/presentations of MSETCL.

6. Action Plan:

- 6.1. The work approach should clearly identify the role and involvement of various departments needed for effective execution of balance work of project.
- 6.2. Develop and implement proper monitoring & supervision mechanism for time-bound completion of balance construction works on the project.
- 6.3. Prepare the Design Brief in terms of functionality, cost, time, quality and safety and works breakdown structure (WBS) for work.

6.4. Preparation of Project Master Schedule / Bar Chart with base line for its completion.

7. Conclusion/Recommendations:

- 7.1. Based on the research study and analysis as per above sections, PMC agency to sum up findings and give a comparative evaluation of feasibility and cost effectiveness of the project.
- 7.2. If the implementation of the Project is feasible, whether to float fresh tender for balance work, conducting Pre-bid meetings and feedback for completeness of tender specifications and technical parameters and Engineering, Project Monitoring, Project closure related Activities.

8. Engineering & Project Monitoring Activities:

The PMC agency should study, review & report regarding:

- 8.1. Work Schedule, Design Basis Report as submitted by Engineering, Procurement and Construction (EPC) Contractor/Turnkey contractor/MSETCL.
- 8.2. Review of detailed survey Report and route, profile plotting, tower spotting and tower schedule prepared by EPC Contractor/Turnkey contractor / MSETCL.
- 8.3. Review of drawings and Bill of Quantities (BoQ) required for project.
- 8.4. Review of interface between different systems, Review of Earthing & Lighting system, Civil Foundation Drawings, Mechanical Structural Support, Fire Protection system, Cable schedule, switchgears protection controls etc. required for completion of the substation / line works as submitted by EPC Contractor/Turnkey contractor / MSETCL.
- 8.5. Technical & physical support and for all technical and statutory approvals.
- 8.6. Advising on any other legal matters as required by MSETCL for the successful completion of the assignment.
- 8.7. Facilitate Key performance Indicator (KPI) based reporting for project execution.
- 8.8. Monitor the construction of work and report to authority as per overall project implementation plan.
- 8.9. Stores supervision and reconciliation of material after commissioning of substation / Line.
- 8.10. Providing Monthly Progress Report (MPR), Quarterly Progress Review Report.
- 8.11. Cost control during all stages of design and implementation.

9. Closure of Project:

- 9.1. Collection and integration of various O&M manuals, commissioning & test certificates.
- 9.2. Reconciliation and Certification of Bill of Quantities of project.
- 9.3. Preparation of project close-out report including learning and Collate & verify all As-built drawings.
- 9.4. Addressing any queries during defects liability period, Co-ordination with the Contractors to rectify the defects during the defects liability period.
- 9.5. Satisfactory completion of work and handing over to MSETCL.
- 9.6. Preparation and review of Field Quality Manual, Quality Assurance Plan, Safety Plan and Implementation during execution.

10. Any other services/activity not specifically included above but is necessary for successful completion of the project shall be deemed included without any additional cost to MSETCL.

11. Deliverables

The deliverables that will be required from the consultant are as under:

- 11.1. L1, L2, L3, L4 PERT schedule, Bar Chart and Activity Schedule of work.
- 11.2. Submission of Monthly Progress Report on all the Engineering and Project Monitoring Activities, financial and physical progress of work.
- 11.3. Closure Report including Reconciliation of material and payments thereof.
- 11.4. Special Reports & Power Point presentations as and when required by Owner/MSETCL.
- 11.5. Any other deliverable as and when required by Owner/MSETCL.
- 11.6. The Consultant would submit the hard & soft copies of the reports, financial models etc. prepared for the assignments. All the hard copy of reports shall be submitted in 2 (two) copies.
- 11.7. There may be any other deliverables, which are not specifically mentioned above but may be required for completing the task. The Consultant shall have to provide such deliverables, as identified by MSETCL for the successful completion of the tasks as per above scope of work to its satisfaction.

3.0 QUALIFYING REQUIREMENT

In order to be qualified for award of Contract, the bidder shall satisfy the following minimum criteria.

1. The firm should have total average annual financial turnover of Rs. 500 Lakh in last three financial years from the Consultancy services as certified by CA.
2. The Firm shall be in business of providing Consultancy services to electricity transmission utility at EHV level for previous 7 (Seven) years and shall have provided consultancy services for construction of EHV project(s) having project cost more than **100 Cr cumulatively during last 7 years.**
3. The firm should have experience of Project Management and Contract Management Consultancy for supervision of following work with any Govt. / Semi Govt. organization in power sector and certified by an officer not below the rank of Executive Engineer.
4. Completed consultancy services for **project management during construction phase of at least two (02) EHV works i.e. one EHV substation and one EHV Transmission line of at least 10 Ckm line length, in last 7 years from date of submission of bid.**
5. Joint venture will not be allowed for participation.
6. The existing EPC/TKC agency already working on projects in MSETCL shall not be considered eligible for participating in the bidding procedure.
7. The consultancy should have team essentially comprising of 06 members (04 Experts and 2 Management Assistants) having expertise in field of Technical (EHV S/S and lines), Liasoning, Legal & Finance.

4.0 OTHER MANDATORY DOCUMENTS FOR VALID BID

1. Original colour scan copy of duly signed/sealed schedules given in Book-I (GTC).
2. Attending pre-bid meeting is **MANDATORY** for valid bid. The Bidder shall show presentation during pre-bid meeting explaining the eligibility criteria and adequacy of the proposed methodology and work plan in response to the Terms of Reference.
3. Bid Security Deposit (BSD) for an amount as mentioned in tender document in the form of Bank Guarantee from Scheduled/Nationalized Bank in the prescribed format annexed in the tender specifications as schedule 'D', along with the offer. The validity of Bank Guarantee

should at least be for six (6) months from the originally scheduled date of techno-commercial bid opening. The Bank Guarantee should be payable at Mumbai only. The Stamp Duty should be paid as applicable in Maharashtra.

4. Registration of bidders from a country sharing a land border with India in order to be eligible to bid as per Order (Public Procurement No. 1) dt. 23.7.2020 from Ministry of Finance, GOI is required. (The format and guidelines in this regard are enclosed as Schedule -M is Book -I (GTC.)

Note: In case if above registration is NOT applicable, the bidder must submit the undertaking accordingly.

5.0 TIME PERIOD OF CONTRACT

The contract period will be of two years from the Effective Date of Contract with a provision for annual extension by additional 01 (One) year or till completion of project/work, whichever is later. The decision of extension of contract will be exclusive taken by MSETCL on the basis of performance of PMC agency.

6.0 GENERAL POINTS

1. The prices to be quoted against this IFB shall be in Indian Rupees only.
2. A complete set of documents can be downloaded by the bidder from MSETCL's SRM e-Tendering website <https://srmetender.mahatransco.in>. The cost of bidding documents should be paid online before the date of bid submission and the screen shot of successful payment transaction shall be uploaded with bid documents being submitted by the bidder.
3. The Contract shall be awarded on quoted price exclusive of GST. 100% GST payment shall be made against invoice submission. All other provisions of the tender remain in full force and effect, other than any provision that conflicts with the terms and spirit of this tender, which shall be deemed to be amended appropriately in order to be consistent with clause.
4. The price variation will NOT be applicable. Quotation shall be on Firm prices.
5. It may please be noted that the taxes / duties will be paid / reimbursed as per actual OR as stated in price break-up statement whichever is lower on submission of valid documentary proof.
6. In case of any variation in statutory taxes/duties/levy or any new existing tax/duty/levy is revoked by the Government, the same shall be passed through either side. In certain cases production of valid documentary proof may be brought for.
7. The bidders are requested to submit their financial documents (Turnover & Networth certificate) duly audited, verified & certified figures from Chartered Accountant and same should be generated with UDIN number. So, the same can be verified on <http://udin.icai.org>.
8. Interested bidders may obtain further information, if needed, on our Website <https://srmetender.mahatransco.in> or from the Office of, the Chief Engineer (Contracts & Monitoring), Maharashtra State Electricity Transmission Co. Ltd; 5th floor, Plot No. C-19, 'E'-Block, Bandra Kurla Complex, Bandra (East), Mumbai 400051. Tel No. 2659 5000 (Extn. No. 5163/5124) Fax No. (022) 26598587/26598590.
9. The new bidders are requested to complete the contractor registrations for SRM e-Tendering with MSETCL as per the procedure prior to the date of submission of the tender documents. The bids of only registered main/lead bidders will be entertained.

- **Composition of Project Management & Contract Management Consultant (PMC) team**

It is proposed to appoint project management consultant for various stuck-up and future projects of EHV Substations and Transmission lines of MSETCL comprising team of four (04) experts and two (02) assistants. The composition of Project management consultant team shall be as follows-

- 1) Technical Expert (Team Leader) -01 No.
- 2) Liasoning Expert (RoW Expert) -01 No.
- 3) Legal Expert -01 No.
- 4) Finance Expert -01 No.
- 5) Management Assistants -02 Nos.

The consultant shall set up his office in Mumbai at his own cost.

The probable roles of these members of project management team will be as below-

- 1) Technical Expert (Team Leader) (EHV Substation and Lines)**

- (a) To Lead the Project Management Team to perform roles and complete tasks assigned by MSETCL.
- (b) To review survey of lines, profile making, tower scheduling, PTCC proposal, ROW proposal, Forest, Highway, Railway, Creek, Navigational River, Non-navigational River and allied crossing proposal for overhead / UG EHV lines.
- (c) For EHV substation, Review and monitor, site selection taking SBC (Soil Sampling), Soil / Earth resistivity, layout finalization, Finalization of DPR as per MSETCL scope.
- (d) For above EHV S/S and lines Review and monitoring of project as per terms and conditions of tender documents, proposal of Quantity Variation (QV), Extra Item proposal, Time Limit Extension (TLE) proposal, Short Closure proposal if required. Monitoring and reporting of progress to the respective nodal officer(s) and zonal head.
- (e) Also, facilitate MSETCL on various aspects of contract management for the projects earlier awarded by MSETCL on contracted terms & conditions and to be monitored by PMC.

- 2) Liasoning Expert (RoW Expert)**

The expert & team shall have knowledge of administrative structure of Maharashtra & Central Government's various offices such as Revenue, Forest, Railways, NHAI, Telecom authorities, Aviation, Maritime board, Airport authorities Various local bodies (i.e. Gram Panchayat, Nagar Palika etc.) to help and assist in obtaining statutory clearances/NoCs from various authorities e.g. Forest/Environment, archeological survey of India, Geological survey of India.

- 3) Legal Expert**

The expert & team shall help and assist MSETCL in arbitration procedure & proceedings as per MSETCL contract terms & conditions, Court cases of MSETCL in various Courts in India. Drafting/modification the tender document as per current provisions regarding taxation and as per law of contracts and contract management.

- 4) Finance Expert**

The Finance expert shall do financial analysis of the project / intermediate stages of project (as the case maybe) and submit a report regarding financial implications. The expert shall workout RoI (Return on investment), Cost benefit analysis, Break even analysis of project. The expert shall extend support in cost effective planning of material and resources organization for project. Also, extend support in understanding the timely changes in taxation and duty policies of Government.

5) Management Assistants

The roles of management assistants will be to assist the above experts in their work.

• Evaluation Methodology

The evaluation methodology adopted for this is quality based i.e. 80% weightage for technical proposal and 20% for financial proposal. The firms failing to meet the minimum requirement will be rejected. Only those technical proposals, which score at least 80 points out of 100, shall be considered for financial evaluation. The firms will be ranked using combined technical and financial scores. Each responsive proposal will be assigned a technical score (ST) as follows:

The points to be given for captions under the evaluation criteria are as under,

Sr. No.	Description	Points
I.	Establishment of Firm, Specific experience of the Consultants relevant to the assignment, Relevant Experience & Turnover and No. of timely completed projects where bidder has successfully provided consultancy services	50
II.	Qualification and Relevant Experience of the Proposed Key personnel	50
	Total	100

Criteria, sub-criteria, and point system for the evaluation of Technical proposals:

Sr. No				Max. Marks
i)	Establishment of Firm, Specific experience of the Consultants relevant to the assignment, Relevant Experience & Turnover			
	Sr. No.	Criteria	Marks allotted	50
	1	Establishment of firm:	10(Max)	
		i. Since 7 years to 10 years	8	
		ii. More than 10 years	10	
	2	Relevant experience	20(Max)	
		i. More than 7 years less than 10 years	15	
		ii. More than 10 years	20	
	3	Avg. annual Turn Over of last 3 years	10(Max)	
		i. More than 500 lakh less than 700 Lakh	8	
		ii. More than 700 Lakh	10	
	4	No. of completed projects in last 7 seven years	10(Max)	
		i. Two no. of projects	9	
		ii. Three or more no. of projects	10	
	Total			50 Marks
ii)	Proposed staff qualifications and competence for the assignment:			
1	Technical Expert			10
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	10 (Max.)	

2	Liasoning Expert			10
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	10 (Max.)	
3	Legal Expert			10
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	10 (Max.)	
4	Finance Expert			10
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	10 (Max.)	
5	Management Assistant_01			5
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	5 (Max.)	
6	Management Assistant_02			5
	Sr. No.	Criteria	Marks allotted	
	1.	Experience as per annexure I	5 (Max.)	
	Total			50 Marks

Note: On satisfaction of qualification criteria, 80% marks allotted to that criteria shall be given. The firm having more experience/ qualification to satisfy that criteria shall be awarded 100% marks allotted to that criteria.

Example: Criteria -12 years in the field of consultancy – total marks 10.

Firm	Experience in field of consultancy	% marks	Marks obtained
A	Since 7 years to 10 years	80 %	08
B	More than 10 years	100 %	10

Evaluation of Financial Proposal:

1. For financial evaluation, total cost of financial proposal will be considered. This however, does not include GST, which is separately reimbursable.
2. The evaluation committee will determine whether the financial proposals are complete and unconditional. The cost indicated in the financial proposal shall be deemed as final and reflecting the total cost of services. Omissions, if any, in costing any item shall not entitle the Firm to be compensated and the liability to fulfill its obligations as per the terms of reference within the total quoted price shall be that of the Firm. The Committee will correct the computational errors, if any, and correct the prices in INR. The lowest financial proposal (FM) will be given a financial score of 100 points. The financial scores (SF) of other proposals will be computed as follows:

$$SF = 100 \times FM/F$$

(F = amount of financial proposal in the INR currency).

3. Combined Evaluation of Technical and Financial Proposals

Proposals will finally be ranked according to their combined technical (**ST**) and financial (**SF**) scores using the weights as follows.

The weight (T) given to the Technical Proposal - **80 Per cent.**

The weight (F) given to the Financial Proposal - **20 per cent.**

$$S = S_T \times T + S_F \times F$$

Where **T** and **F** are weights assigned to technical and financial Proposals respectively as given in the Data Sheet.

The firm achieving the highest combined technical and financial score (**S**) will only be invited for negotiations.

7.0 Estimated Cost (RFx No. 7000024475)

Sr. No.	Scope of Work	Est. Cost (Excl. of GST)
1	Appointment of project management consultant for various ongoing and future projects of EHV Substations and Transmission lines of MSETCL	Rs. 1,88,89,200.00 (Excl. of GST)

BSD Amount : 1% of estimated cost.

8.0 IMPORTANT DATES

Bidders are requested to note the dates for purchase, submission, and opening of bid documents as below:

a)	Starting Date of downloading	30.08.2022
b)	Price of bid document	Rs. 5,000/- + Taxes
c)	Last date and time for submission of bid	14.09.2022 up to 13:00 hr
d)	Pre bid meeting	05.09.2022 at 15:00 hr
e)	Last date for submission of Queries	06.09.2022 up to 15:00 hr
f)	Date and time for opening of techno- commercial bid	14.09.2022 at 15:00 hr
g)	Date and time for opening of price bid of qualified bidders	Will be informed later

Kindly note that, the Queries received after last date of submission of queries will not be entertained. Submit your queries on ee13prj@mahatransco.in only. In case the due date for sale, receipt and/or opening of bids happens to be a holiday, the next working day shall be the corresponding due date.

Chief Engineer (C&M)