



MAHATRANSCO

Maharashtra State Electricity Transmission Co. Ltd.

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

CIN: U40109MH2005SGC153646

From,

Name of Office: Chief Engineer (Projects -Schemes)

Office Address: 'Prakashganga', MSETCL, Plot No.: C-19, E-Block,

Bandra Kurla Complex, Bandra (E), Mumbai – 400 051

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No. MSETCL/CO/Proj Sch/Consultant/ **No 0 2 3 4 7**

Date: **10 APR 2023**

To,

All the Concern.

Sub.: Enquiry for submission of lowest budgetary offers for consultancy for conducting procedural reports for-availing-KFW loan for RE projects in MSETCL.

Dear Sir/Madam,

This has reference to the Projects being executed for evacuation of RE power in Maharashtra state. MSETCL has availed KFW loan earlier for the projects executed under GEC schemes. This office has again decided to avail the KFW loan for the upcoming RE projects. The schemes for new EHV sub-stations along with associated lines, EHV link-lines, augmentation of existing EHV sub-stations, conversion of existing lines into HTLS lines, replacement of transformers in existing EHV sub-stations, etc. are identified. The tentative no. of schemes are 48 and tentative estimated cost is Rs. 3400 Crs. Which will approximately evacuate 5670 MWs over the period of three years across the Maharashtra state.

For availment of KFW loan, it is understood that the detailed DPR is required to be prepared which consists of need and justification of the schemes, load flow studies, line surveys, preparation of detailed estimates considering various factors such as socio-economic effect, environmental factors, etc. The DPR is to be submitted to MSETCLs Board, Govt. of Maharashtra, MNRE, DEA, finally to KFW German Company for approval.

Brief Scope of Work is as follows:

Task I: Preparation of Investment Planning Report and Feasibility Report (DPRs) which includes Load flow analysis (Steady state and contingency analysis) for the scheme of transmission network (Substations and Lines in the State). Consultancy for preparation and inclusion of load flow studies/system studies by providing guidance in DPR for proposed schemes as per requirement of KFW to justify the necessity of transmission scheme for evacuation of power from RE projects. The scope shall include.

- Finalization of format for load flow studies in line with DPR requirement.
- Scrutiny of system studies done by STU for individual / combined schemes.
- Compliance of data gaps if any from KFW with regards to load flow studies.

The consultants would assist MSETCL in preparing the region wise or package wise DPRs (to be decided after the Consultant is appointed) for schemes identified for KFW funding from the Transmission Planning Report, which would include technical justification, cost estimates (based on prevailing SOR rates / recent contracts for MSETCL transmission system etc.), time frame for execution method of execution, and economic and financial analysis. Any other aspect, required for an industry standard DPR, but not specifically mentioned here, shall also be included. The Consultant shall prepare the augmentation transmission network schemes.

- The DPRs should be based on the detailed survey and analysis to be undertaken by the Consultant for each of the individual scheme identified for KFW funding (a tentative list of schemes to be covered under RE Evacuation Project for KFW funding is attached in the Annexure –I)
- The DPRs should also include Techno-commercial justification for the schemes, based on the existing and forecasted loads and the planned network. Economic and financial analysis etc.
- The economic and financial analysis in the DPRs for each of the schemes should calculate both economic and financial internal rates of return (EIRR) and carry out sensitivity analysis on the key input variables such capital costs, Commercial Operation Date delay, different levels of power flow and offtake scenarios, and the results of load flow analysis. The economic analysis should take into account benefits associated with additional energy supply, loss reduction and improvement in reliability of the grid.

Task II: Report towards preparation of Environment and Social Impact Assessments:

Task III: Preparation of compliances of the queries of various Departments such as Govt. of Maharashtra, MERC, MNRE, DEA, finally to KFW German Company till final approval.

Task IV: Preparation of Bidding Documents and Bid Process Management for Schemes identified for KFW funding.

The consultant should assist MSETCL in bid process management which shall include: Issuance of Invitation for Bids (IFB), finalization of bidding documents (including technical/financial), uploading of bidding documents to MSETCL's SRM e-tendering portal, organizing pre-bid meetings, preparations/issuance (after due approvals) of clarifications/amendments to bidding documents, bid opening, preparation of bid evaluation reports, issuance of LOA and signing of contract agreements.

Bidding documents for specific contract packages – The documents will include the specific management plans (environment and social) that will be prepared by the Environment and Social Project Preparation Consultants.

Task V: Assistance in Agreement finalization in view of Financial as well as Legal angle.

Task VI: Project Monitoring of various Projects under execution till Commissioning of the Projects including site visits.

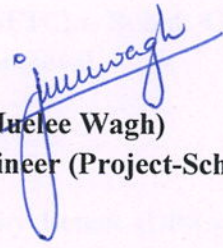
Task VII: Assistance in submission of the Claim for disbursement of the loan from KFW in prescribed formats.

Task VII: Assistance in closure of the Loan Proposal.

In view of this, it is requested to submit the budgetary offer for providing the consultancy for above mentioned scope for RE projects in MSETCL with following terms and conditions.

1. The budgetary offers shall be submitted in sealed envelope as per above scope on or before **13.04.2023 up to 13.00 Hrs.**
2. Late submission of offers, for whatsoever reasons, after the due date and time for submission shall not be considered.
3. Offers sent by e-mail on email address se3prj@mahatransco.in will also be considered.
4. The Budgetary offer will be on agencies letter head and valid for 3 months.
5. The Ex-work price & other applicable taxes shall be mentioned separately in the budgetary offer.
6. The costs on account of preparation of Proposal, negotiation, discussion etc. as may be incurred by the Applicant(s).
7. The undersigned reserves the right to reject any or all proposals, wholly or partially, without assigning any reasons whatsoever.
8. Further, if the due date of receipt of proposal as aforesaid is declared holiday, proposal would be received on schedule time on the next working day.
9. Alternative Proposals shall not be considered.

Thanking You,


(Julee Wagh)
Chief Engineer (Project-Schemes)

1. Tentative List of Schemes – Replacement of Existing ACSR Conductor by High Ampacity Conductor

Sr. No.	Name of scheme	Zone
1	132 kV Ghatodi-Pusad SC line -21 km	Amravati
2	132 kV SC line from 220 kV Warud to 132 kV Warud s/s -36 km	
3	132 kV Nandgaonpeth-Amravati SC line-40 km	
4	132 kV Kalmeshwar-Ambazari line -19 km	Nagpur
5	132 kV Katol-Bharsingi SC line-17 km	
6	132 kV Bharsingi-Warud line -11 km	
7	132 kV Ambazari--Karanja (Ramzanpur) ckt 1 & ckt 2 -53 km	
8	132 kV Kalmeshwar-Elio Solar-38 km	
9	220 kV Khaperkheda-Kalmeshwar -43 km	
10	220 kV Ambazari-Kalmeshwar-13 km	
11	132 kV Partur to Partur DC line -28.66 ckm	Aurangabad
12	220 kV Beed-Patoda-Manjarsumbha – 57 km	
13	220 kV Beed-Patoda – 46 km	
14	a) 132 kV Latur - Ujani - Naldurg - Solapur DC line 107 ckm b) 132 kV Harangul-Ausa-Niwali-Ujani -79 ckm	
15	132 kV Rajpimpri-Paithan(59 ckm)	
16	220 kV Solapur PG - Narangwadi DC line - (149 ckm)	
17	132 kV Bhoom-Kallamb line	
18	132 kV Bhoom-Paranda line	
19	132 kV Kharda- Bhoom line	
20	132 kV Kharda- Paranda line	
21	132 kV Jalnao old-Partur line – 49 km	
22	220 kV Jamde-Dondaicha line Ckt-I & Ckt-II- 68 ckm	Nasik
23	132 kV Kombhalne-Akole line -23 km	
24	132 kV Kekatnimhora-Pahur DC line – 37 km	
25	132 kV Shivajinagar - Sakri - Dhule – 80 km	
26	220 kV Gangapur - Shivajinagar S/C – 75 km	
27	220 kV Gangapur - Satana S/C – 110 km	
28	132 kV Malkapur-Khadka line via VaragaonTap – 47 km	
29	220 kV Shivajinagar - Malegaon S/C – 110 Km	
30	132 kV Chalisgaon-Manmand – 73 km	
31	132 kV Chalisgaon-Pimparkhed – 37 km	
32	132 kV Pimparkhed-Manmad – 36 km	
33	132 kV Satana-Dindori – 80 km	

2. Tentative List of Schemes - 2nd Ckt Stringing

Sr. No.	Name of scheme	Zone
34	220 kV Badnera-Ner – 43 km	Amravati
35	132 kV Bale -MIDC Solapur – 16 km	Pune
36	132 kV Naldurg – Waghdari – 35 km	
37	220 kV Lamboti-Vairag SC	Aurangabad
38	132 kV Nilanga-Omerga – 36 km	
39	132 kV Jalkot-Udgir – 31 km	
40	132 kV Kharda-Bhairvnath – 15 km	Nasik
41	132 kV Bhambori – Erandol – 26 km	

3. Tentative List of Schemes – TF / ICT Addition

Sr. No.	Name of scheme	Zone
42	1 X 25 MVA, 220/33 kV TF at 220 kV Umred S/s.	Nagpur
43	1 X 25 MVA, 220/33 kV TF at 220 kV Shirsuphal S/s.	Pune
44	1 X 25 MVA, 132/33 kV TF at 132 kV Kharda S/s.	Aurangabad
45	1 X 100 MVA, 220/132 kV ICT at 220 kV Jalkot S/s.	
46	1 X 100 MVA, 220/132 kV ICT at 220 kV Narangwadi S/s.	
47	1 X 100 MVA, 220/132 kV ICT at 220 kV Tuljapur S/s.	
48	2 X 100 MVA, 220/132 kV ICT at 220 kV Patoda S/s.	
49	1 X 100 MVA, 220/132 kV ICT at 220 kV Kekatnimbhora S/s.	Nasik
50	1 X 100 MVA, 220/132 kV ICT at 220 kV Malkapur S/s.	Amravati

4. Tentative List of Schemes – Substations / Lines / Link Lines

Sr. No.	Name of scheme	Zone
51	Establishment of 400 kV Nandgaon Peth Substation.	Amravati
	a) LILO on 400 kV Koradi - M/s RIPL Nandgaonpeth SC/SC – 5 km	
	b) 2 X 500 MVA, 400/220 kV ICTs	
	c) 220 kV DC Nandgaonpeth-Nandgaonpeth -1 km	
	d) 220 kV line from 400 kV Nandgapeth-Anjangaon – 60 km	
	e) 220 kV line from 400 kV Nandgapeth-Warud – 60 km	
52	Establishment of 220/132 kV Waghdari Substation, District - Solapur	Pune
	a) LILO on one ckts of 220 kV Solapur PG - Narangwadi DC line at 220 kV Waghdari - 40 km	Pune
	b) LILO on both ckt of 132 kV Wagdari - Tata Renew Solar – 5 km	Pune
	c) 2 X 100 MVA, 220/132 kV ICTs (provision for 3rd ICT to be made for future purposes)	Pune
53	220 kV Solapur (PG) - Bale DC Line – 40 ckm (WIP)	Pune
54	132 kV Kumbhari-Solapur MIDC SCDC – 25 km	Pune
55	Establishment of 400/220 kV Balsane Substation, District-Dhule	Nasik
56	Establishment of 400/220 kV Malegaon Substation.	Nasik
57	Establishment of 220/132/33kV Akrale Substation.	Nasik
58	Establishment of 220/132/33kV Musalgaon Substation.	Nasik
59	LILO of 132KV Kharda - Ashti at Patoda (GEC)-30 km	Aurangabad
60	132 kV Patoda - Raimoha SCDC (GEC) – 30 km	Aurangabad
61	220 kV Jeur - Paranda DC line (GEC)- 35 km	Aurangabad
62	220 kV Patoda-Sonewadi DC link - 80 km	Aurangabad