


Office of: The Executive Engineer, MSETCL, EHV (O&M) Division, Babhaleshwar	
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Ref : EE/EHV/O&M/DN/BBLR/TECH/ 2606

Date: 24.12.2024

TO WHOM SO IT MAY CONCERN

Sub: Calling Budgetary offer for the work of supply, installation, testing and commissioning of Transformer Auxiliary Monitoring System (TAMS) at 220KV Bhenda S/Stn and 132KV Rajur S/Stn under EHV (O&M) Division Babhaleshwar.

Dear Sir,

The budgetary offers through e-mail are hereby invited for the above work as per Schedule 'A' mentioned below:

Schedule "A"

Sr. No.	Particulars	Unit	Quantity	Ex-Rate (Rs.)	GST @18% (Rs.)	Unit Rate (Rs.)
	Supply Portion					
1	TAMS Software with necessary Customization as per S/stn requirement: This software collects data from various IED installed in the field near T/F and process it as per S/s. Requirement and it provides easy to use graphical user interface for substation operating staff. Software should support scalability. MSETCL approved / Std. make	Nos	1 Nos. for Multiple T/F / ICT			
2	TAP Changer Controller cum Transformer Monitoring Unit (TF IED): This device collects the data from Fan Control Cubicle and On Load Tap Changer Drive Mechanism and applies the necessary interlocks and logic and process the data and forward it to TAMS software installed in the control room. Usually one IED installed per T/F. This IED should be capable of accepting inputs such as 4-20mA, RS485 Comm. And it should work on 220V DC/110V DC whichever available at S/s. And this communicates on 61850/104 protocols. MSETCL approved / Std. make	Nos	1 Nos. for Each T/F / ICT			

3	<p>RTU / PT IED: This device is required for configuration of transformer LV side voltage & current (for AVR & temperature curve purpose). Also it shall act as a data exchange unit on protocol such as IEC 61850, 104, Modbus. This device shall have minimum 02 ports for each of above protocol.</p> <p>MSETCL approved / Std. make</p>	Nos	1 Nos. for Multiple T/F / ICT			
4	<p>Terminal Board (Yard Cabinet): This IP 65 rated panel with necessary stand of almost 4 feet height installed near each T/F in the field and grounded using cement in the field. IED and necessary devices installed in this panel. As it occupies one of the important device i.e. IED/RTU, this should follow all the standards of panel to be installed in harsh environment.</p> <p>MSETCL approved / Std. make</p>	Nos	1 Nos. for Each T/F / ICT			
5	<p>Industrial Grade PC along with Standard Kiosk in the Control Room: Industrial grade PC used as it runs important TAMS software and as it runs 24X7 and used for monitoring and controlling various parameters of T/F auxiliaries, this should be enclosed in KIOSK as per MSETCL standards OR Industrial Grade furniture for work station PC can be provided.</p> <p>MSETCL approved / Std. make</p>	Nos	1 Nos. for Multiple T/F / ICT			
6	<p>Armoured Fiber Optic Cable: Fiber optic cable drawn from each IED installed in the field to control room accompanied by ring / star topology to achieve maximum uptime of TAMS. As this runs throughout the cable trench of the substation it is recommended to use armored fiber optic along with HDPE pipe for safety from rodents throughout the trench length.</p> <p>MSETCL approved / Std. make</p>	kM	kM			
7	<p>12 Core Copper Cable: Copper Cable for configuration/wiring of FCC/OLTC with TAMS IED.</p> <p>MSETCL approved / Std. make</p>	kM	kM			
8	<p>4 Core Copper Cable: Copper Cable for configuration/wiring of FCC/OLTC with TAMS IED.</p> <p>MSETCL approved / Std. make</p>	kM	kM			

9	FO Joint Box / LIU: As IED gives communication O/P in Ethernet/ FO Patch cords, LIU and convertor to be installed for conversion of Ethernet / FO Patch Cords to armoured FO in the field and same needs to be reversed in the control room to establish necessary communication. Each T/F will require 1 no. of joint box. MSETCL approved / Std. make	Nos.	1 Nos. Required for Each T/F / ICT			
10	Managed Ethernet Switch : Managed ethernet switch will be used to build communication infrastructure. MSETCL approved / Std. make	Nos	1 Nos. for Multiple T/F / ICT			
Service Portion						
1	Installation, Configuration, Testing, Validation of TAMS software on Each Transformer or ICT. (Including all necessary activities related to above work as per site requirement.)	Nos	1 Nos. for Each T/F / ICT			

Note: Rate shall be valid for 90 Days from the date of submission of offer.

You are requested to quote your best reasonable rates for the above subject work. The terms and conditions are as below:

Terms & Conditions:

1. The rate should be quoted on firm quotation basis.
2. The rates should be exclusive of all Taxes. Taxes should be quoted extra.
3. Quantity may be vary as per actual.
4. Bidder should be the approved for the subject product.
5. Technical specification of TAMS along with necessary test as per IEC standard.
6. You are requested to submit your best reasonable budgetary offer as per Schedule 'A' for above works on E-mail id: ee5120@mahatransco.in up to 11:00Hrs on dt.03.01.2025.
7. Following documents should be submitted along with your offer:
 - a. Shop Act / Udyog Aadhar Registration Certificate
 - b. Work Experience Certificate for similar nature of works in MSETCL / in any other Power Utility
8. Please note that said budgetary offer is only for estimation purpose and will not be considered for any bidding & no work order will be issued based on this offer.


(Ujjwal Patil)

Executive Engineer (I/C)
EHV (O&M) Division, Babhaleshwar.