



MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
CIN No. : U40109MH2005SGC153646

Name of Office: Central Purchase Agency,
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SP/T-0605/1223

Date: 05.01.2024

Amendment -I

Sub:- Procurement of BCU-based Control & Relay Panels against LE scheme at various Substations under Pune Zone and Karad Zone in MSETCL against e-tender No. SP/T-0605/1223 (Rfx No.5000001174) - **Issue of Clarification/Amendment to bidder queries and extension in due date of submission and opening of bid.**

Please refer e-Tender No. SP/T-0605/1223 (Rfx No. 5000001174), advertised for subject works.

In response to above tender, the Clarifications/Amendments to Tender Specifications on bidder's queries are given in Annexure-I enclosed herewith.

The Due dates of Submission and Opening of Tender are extended as under:

- i) Due date and time of Submission of bid - 15.01.2024 upto 16:00 Hrs.
- ii) Due date and time of Opening of bid - 15.01.2024 at 16:05 Hrs.

All participants bidders are requested to take note of above and submit their bids accordingly. All other terms & conditions of the Tender Specifications remains unchanged.

Sd/-

Executive Engineer (St-VI)

ANNEXURE-I

S. No	Clause	Technical specification description	Siemens Clarifications	MSETCL Reply
1	General	Panel placement in Control room	We understand all protection panels shall be placed in a common control room at all respective sites. Please confirm the same.	Common Control Room (No BCRs)
2	Clause no. 1.4	Dedicated Bay Control Units (BCU) and Bay Protection Units (BPU) shall be provided for each bay (including 22kV- 33kV Bay) for Control and protection functionality in compliance with IEC-61850 standard. The offered protection and control unit shall comply with the logical node structure as per IEC-61850 and the trip and priority messages viz. interlocking data shall be on GOOSE. Combined Bay Protection and Control Unit Shall not be acceptable. The required Control functions in BCU and Protection functions in BPU shall be as per the details given in this specification.	We shall provide Combined Bay control and protection unit for 22kV -33kV Bays as per standard Practice being followed for MSETCL as well as for other utilities of India. Please accept the same.	As per MSETCL requirement
3	Clause no. 14.1	Annunciators shall be IEC 61850 protocol compliant microprocessor based with suitable communication port. And window size shall be approximate 35mm x 50mm	IEC 61850 compliant Annunciator is not available with any manufacturer. Only RS485 communication port is available. Also In SAS based solution, all the information routed to Annunciators shall also be available at SAS level via IED/BCUs. In this regard we shall provide RS485 communicable Annunciator Further nearest available Window size as per available with supplier shall be provided.	Accepted for present tender scope of work
4	Clause no. 15.12	Wiring shall be provided up to TB for DLMS compliant ABT meter(s) as per Project's approved scheme for Feeder/Transformer panels. Further, provision of cutout with blanking plate shall be made on front plane of CR Panel.	We understand such ABT meters shall be provided by MSETCL and Bidder shall provide necessary wiring and cutout in the panel. Please confirm	Yes Only Wiring and Cutout with Blanking Plate
5	Clause no. 17.7	The BCU shall preferably have dual power supply units from two separate sources. The BCU shall have non- volatile memory using EPROM so as to retain the recorded parameters during power failure or in case of re-boot. In case of Supply failure, the recorded parameters shall have a life not less than 10 years.	As per standard practice and earlier executed projects of MSETCL, we shall provide DC changeover scheme in CRP and BCU shall be connected with Changeover DC supply. This will provide Uninterrupted DC supply to BCU. Further none of the manufacturer provide recorded parameter with a life of 10 years. Instead the parameters can be downloaded/saved in a CD or other storage devices.	Accepted for present tender scope of work
6	Clause no. 19.1.i	Contact multiplication relays shall comprise of one number electrical reset latch type relay with minimum 8 pairs of contacts and one auxiliary (non-latch type) relay having minimum 6 pairs of contacts, the latter to be used in conjunction with the former for the purpose of achieving minimum 14 pairs of contacts altogether. The contact multiplication relays shall have visual operation indicators (flags).	For Contact multiplication of Primary equipments, CMR with Flag is not required because it will not get auto resetted whenever the position of equipment get changed. Instead for this particular application, only latched type electrical resettable bistable relay/contactors are suitable. In this regard we shall provide Siemens germany made Bistable electrical reset latch type contactors with 6 or 8 nos. of contacts for CB & ISOL contact multiplication as per scheme requirement only for 110kV Feeders. For 22kV or 33kV Single pair of contact from Yard is enough to wire in BCPU. No need of multiplication in lower voltage level. Please accept the same	As per MSETCL requirement

7	Clause no. 23.3	DC Supervision shall be provided to continuously supervise the DC supply for all the above circuits, at the end of each circuit.	DC supervision relays shall be provided only at the end loop of the DC distribution circuit as per similar design being followed from past executed orders.	All DC Sub-Circuits and Main DC Circuit shall be provided with DC supervision relays. These supervision relays shall be connected at the end of respective circuit.
8	Clause no. 24.2	The auxiliary relays for all the above functions shall be self-resetting type, (having hand-reset operation indicators flags). Each element shall have minimum 4 pairs of N/O contacts for BCU input & DR.	Since this is for a SAS based system, it is recommended to use the self reset type relays with one or more elements each having 3 contacts min. (one for BCU, one for Annunciator and one spare contacts). Hand-reset flag is not required for alarming application to avoid frequent manual operation to reset the same. Please accept.	As per MSETCL requirement
9	Annexure-II Clause no. 1.70	BCU: Built in features availability Autoreclose, VT supply supervision, Carrier supervision, events recording, self-diagnosis etc	As per this new requirement from MSETCL, we propose 7VK87 which is a modular SIPROTEC-5 breaker management device which is having functionality such as Bay Controlling, Auto-reclosure(both-1/3 pole), Carrier Supervision, LBB (both-1/3 pole), VT supervision and other general features of an IED. Further with this model we are intended to optimize dedicated LBB relay and in this regard We request MSETCL to accept 7VK87 as BCU with LBB protection for breaker management.	Dedicated IEDs for Bay Control & Bay Protection functions shall be provided i.e. Standalone IEDs for Main Protection, Backup Protection, LBB Protection and Bay Control Unit.
10	Annexure-II Clause no. 1.(99-i)	BCU hardware specification: DI-64, DO-16, AI-4I+6U	We propose BI-71, BO-25, CT-4, VT-4. Please accept the same.	These are Minimum requirements. 6U (VT) are required for Check-synch function of BCU.
11	Annexure-II Clause no. 1.(99-ii)	BCU : Input Supply (Vaux - 60 to 300V DC)	As per standard available DC Voltage at substations which is (110V DC or 220V DC) we further offer Vaux - 48V to 250V DC. Please accept.	Accepted for present tender scope of work
12	Annexure-II Clause no. 1.(99-iii)	BCU : Ethernet TCP/IP port (100MBPS) : 2 Nos Optical ports – 3 Nos	As per standard practice and earlier executed projects of MSETCL we shall provide 2xFO Port for SAS communication. Further there is a requirement of 2x FO port for protective relays is also clearly mentioned in the specification and all IEDs should have similar no. and type of ports for SAS networking.	Accepted for present tender scope of work

13	Annexure-II Clause no. 1.(99-iv)	BCU: Serial ports – configurable RS232 / 485	There is no use of serial communication ports in BCU. All MFMs/Meters can be looped in daisy chain and connected to ethernet switch via converter which is as per standard practices of MSETCL and other Indian utilities as well.	Accepted for present tender scope of work
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