



**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**

**CIN No. : U40109MH2005SGC153646**

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**SP/T-0501/0121**

**Date:24.02.2021**

**Amendment -1**

Sub:- Procurement of 400KV, 125MVAR 3-Φ Bus Shunt Reactors (2 Nos.) and 400KV, 50MVAR, 3-Φ Line Shunt Reactors (3 Nos.) along with New Uninhibited Naphthenic Based High Grade Mineral Insulating Oil for CAPEX Scheme under EHV PC O&M Zone, Amravati; Aurangabad and Nagpur EHV PC O&M Zone, Karad, MSETCL through “e-tendering” in Two Bid System against Tender No. SP/T-0501/0121 [RFx 5000000901]; Submission and Opening Due on 25.02.2021  
--- Clarification on Technical Queries and Extension towards Due Date of Submission thereof

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The Technical Queries raised by the Participating Bidders against subject Tender are clarified as per **ANNEXURE-A** enclosed herewith.

Moreover, the Due Date for Submission of subject Tender is extended as under:

Submission Deadline: **05.03.2021 upto 15:00Hrs.**

Bidders are requested to note the same and submit their offers accordingly.

It shall be noted that no further extension to the Submission Deadline will be granted as this Tender is originally advertised since 25.01.2021 with 30 Days publicity period.

This is issued without prejudice to all other terms & conditions of the subject tender.

**Encl: ANNEXURE-A**

*Sd/-*

**Executive Director (Trans.)**

**ANNEXURE-A**

**Clarifications over Pre-bid queries in respect of e-Tender No. SP/T-0501/0121 (RFx: 5000000901)**

<b>Sr. No.</b>	<b>Document</b>	<b>Clause No.</b>	<b>Clause Extract</b>	<b>Bidder's Query</b>	<b>MSETCL Comment</b>
1	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	1.1	This specification covers design manufacture, assembly, inspection and testing at manufacturer's works, supply, delivery including loading, transportation & unloading at site of 420 kV, 125MVAR Bus Reactor	Our scope for Delivery shall be till unloading at site any further activities thereon such as 1. Dragging 2. Unloading on plinth, etc will not be in our scope.	Accepted
2	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	1.4	Reactor shall be supplied with (i) Reactor oil monitoring system	Please confirm if this Reactor oil Monitoring system is On-Line Multi Gas (9 Gases) DGA for Reactor Oil specified in Clause 23 of the spec. If not then please give specifications for this system.	Yes
3	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	1.9	The equipment offered shall be suitable for hot line maintenance techniques.	Please clarify what is exactly required.?	In order to facilitate maintenance activity without availing outage , it shall be feasible to work on the proposed Reactor with hot-line method/techniques while Reactor in service.
4	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	4.1 - ix) - c)	Insulation Level for Winding c) ) One Minute Power Frequency Withstand Voltage = 420kVrms	This specified value seems to be a typing mistake. Please confirm correct value.	It should be 570kVrms

**ANNEXURE-A [Continued...]**

**Clarifications over Pre-bid queries in respect of e-Tender No. SP/T-0501/0121 (RFx: 5000000901)**

<b>Sr. No.</b>	<b>Document</b>	<b>Clause No.</b>	<b>Clause Extract</b>	<b>Bidder's Query</b>	<b>MSETCL Comment</b>
5	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	4.1 - x) - c)	Maximum admissible temperature rise over an ambient temperature of 50°C and at highest voltage: c) The temperature of the hottest spot	Please confirm the Hot Spot Rise value 98-32 = 66K	It should be specified by the bidder
6	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	4.1 - xx)	Tolerance on impedance Ratio of tan of slope beyond 1.5 p.u & slope upto 1.5 should not be less than 0.3	Please clarify what tolerance is required.?	As per Principle Technical Particulars requirement
7	Technical Specification for 50MVAR Reactor	4.2 - viii	NEUTRAL GROUNDING REACTOR Rated impedance at rated short time current 400 – 2500 ohm (This is an indicative value, actual value will be confirmed during)	Please provide Actual Value of Rated Impedance of NGR	3 Nos. of 400kV, 50MVar Line Reactors are to be installed on 400kV Chandrapur-Parli Ckt at 400kV Chandrapur GCR and 400kV Chandrapur-II-Nanded Ckt I & II at 400kV Chandrapur S/s. The lengths of the said lines are 374km, 278km & 301km respectively. Accordingly, bidder shall design & supply the required NGR of suitable rating
8	Technical Specification for 50MVAR Reactor	4.2	NEUTRAL GROUNDING REACTOR	Only basic parameters are mentioned in this table. Please provide detailed Technical Specification of this NGR.	As per Principle Technical Particulars indicated in Technical Specifications

**ANNEXURE-A [Continued...]**

**Clarifications over Pre-bid queries in respect of e-Tender No. SP/T-0501/0121 (RFx: 5000000901)**

<b>Sr. No.</b>	<b>Document</b>	<b>Clause No.</b>	<b>Clause Extract</b>	<b>Bidder's Query</b>	<b>MSETCL Comment</b>
9	Technical Specification for 50MVAR Reactor	4.5	GAPLESS SURGE ARRESTER	Only basic parameters are mentioned in this table. Please provide detailed Technical Specification of this Surge Arrester.	As per Principle Technical Particulars indicated in Technical Specifications
10	Technical Specification for 125MVAR Reactor	4.3	GAPLESS SURGE ARRESTER	Only basic parameters are mentioned in this table. Please provide detailed Technical Specification of this Surge Arrester.	As per Principle Technical Particulars indicated in Technical Specifications
11	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	12.2	Terminal Connectors	Please provide the Conductor details for Terminal Connector for both 125MVAR & 50MVAR Shunt Reactors?	0.5 ACSR MOOSE
12		--	FOR Delivery	Please provide the Site / Store address details with Pincode for delivery of these 5 units.	The details for 50MVAr Line Reactors are mentioned at point no (7). The details for 2 Nos. of 125MVAr,400kV Bus Reactors will be provided before dispatch.
13		--	Approved Vendor List	Please provide Approved Vendor List	The list is available on MSETCL website.

**ANNEXURE-A [Continued...]**

**Clarifications over Pre-bid queries in respect of e-Tender No. SP/T-0501/0121 (RFx: 5000000901)**

<b>Sr. No.</b>	<b>Document</b>	<b>Clause No.</b>	<b>Clause Extract</b>	<b>Bidder's Query</b>	<b>MSETCL Comment</b>
14	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	8.1 (b)	All welding shall be either stress relieved or radio graphically tested.	Stress relieving or radio graphic testing of welds is required/called for equipment operating at higher pressure like boiler, turbine etc. For Transformer operating pressure is of very low magnitude. Hence Stress relieving or radio graphic testing of welds is not required. Moreover it is nowhere mentioned in IS 2026/IEC 60076 and even not asked by any utility in India or abroad. Hence Stress relieving or radio graphic testing of welds will not be part of offer.	Accepted & not applicable for this e-tender

**ANNEXURE-A [Continued...]**

**Clarifications over Pre-bid queries in respect of e-Tender No. SP/T-0501/0121 (RFx: 5000000901)**

<b>Sr. No.</b>	<b>Document</b>	<b>Clause No.</b>	<b>Clause Extract</b>	<b>Bidder's Query</b>	<b>MSETCL Comment</b>
15	Technical Specification for 125MVAR Reactor & 50MVAR Reactor	23 5 (ii)	On-Line Multi Gas (9 Gases) DGA for Reactor oil The gases extracted shall be detected using a portable Gas Chromatograph (GC) with Thermal Conductivity Detector (TCD) / Flame Ionization Detector (FID)/ any other detector. All the fault gases i.e. H <sub>2</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>2</sub> , CO, CO <sub>2</sub> & two atmospheric gases i.e. O <sub>2</sub> and N <sub>2</sub> concentrations shall be individually measured and displayed	Kindly note that specified clause deals with DGA requirement but with different requirement which are in contradiction with each other. Hence it is requested to clarify whether DGA is online i.e permanently fitted or Portable.	The proposed DGA is on-Line multi type (9 gases) DGA and should be permanently fitted on proposed Reactors. Portable DGA is not envisaged.