

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
[CIN:U40109MH2005SGC153646]

OFFICE OF THE CHIEF ENGINEER
Transmission O&M Department,

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SP/T-0512/0724/

Date:15.07.2024

CORRIGENDUM / CLARIFICATIONS ON PRE-BID QUERIES-1

Sub: Procurement of 420kV CTs/ CVTs; 245kV CTs/ PTs/ CVTs and 145kV CTs/ PTs/ Neutral CT meant for Critical Spares (All Zones); LE/ CAPEX (Pune & Vashi Zone) and R&M Scheme (Vashi Zone) against e-Tender No. SP/T-0512/0724 (RFx 5000001234), Submission and Opening Due on 26.07.2024

Ref: Pre-Bid Meeting held on 10.07.2024 at ‘Prakashganga’, MSETCL, Mumbai

Bidders are requested to refer the Annexure-A attached herewith regarding Corrigendum / Clarifications on Pre-Bid Queries against the subject e-Tender and submit their Bids accordingly.

“REVISED TECHNICAL SPECIFICATION (REV_Tech_SPEC_CT_PT)” uploaded on the SRM Portal shall be referred.

The Revised Due Date of Submission and Opening of subject Tender is as under-
Due Date of Submission: 05.08.2024 upto 16:00 Hrs
Due Date of Opening: 05.08.2024 at 16:15 Hrs.

This is issued without prejudice to all other Terms & Conditions of the subject e-Tender.

This Notification is published on SRM Portal viz. <https://srmetender.mahatransco.in/> and MSETCL Portal viz. <https://www.mahatransco.in/>

Encl: Annexure-A

Sd/-
Chief Engineer (Trans. O&M)-I/C

CORRIGENDUM / CLARIFICATIONS ON PRE-BID QUERIES-1 Dt.15.07.2024

Annexure-A

MSETCL Tender No. SP/T-0512/0724 (RFx 5000001234)

Sr. No.	Reference	As per Tender Document	Pre-Bid Query of Bidder(s)	Clarifications from MSETCL
1	Clause No. 3.0 of Section-III	<p>DELIVERY PERIOD: The desired Delivery Period of Items advertised in this Tender is as under: Commencement: Within Two (02) Months from the Date of LoA Completion: Within Four (04) Months thereafter The Entire Advertised Quantity of the Tendered Item is to be supplied within Six (06) Months from the Date of LoA.</p>	<p>Commencement within 4 (four) months from the date of LoA and completion within 4 (four) months. Make sure that drawing approval will get within 15 days from the date of drawing submission. We shall supply all the CVTs in one lot. Delivery shall be 4 months from the date of LOA, Kindly confirm. <u>For 132kV-</u> Commencement: Within Two (03) Months from the Date of LoA & Completion: Within Four (04) Months <u>For 220kV-</u> Commencement: Within Two (03) Months from the Date of LoA & Completion: Within Four (4) Months <u>For 400kV-</u> Commencement: Within Two (04) Months from the Date of LoA & Completion: Within Four (4) Months</p>	<p>Commencement: Within <u>Three (03)</u> Months from the Date of LoA Completion: Within <u>Three (03)</u> Months thereafter The Entire Advertised Quantity of the Tendered Item is to be supplied within <u>Six (06)</u> Months from the Date of LoA.</p>
2	Clause No. 2.0 of Section-III	<p>PRICES & PRICE VARIATION: (c) The Price Variation shall be payable only if the Ordered 420kV CTs/ CVTs; 245kV CTs/ PTs/ CVTs and 145kV CTs/ PTs/ Neutral CT in all respects are supplied by the Manufacturer within the Contractual Period or within Extended Time Period approved by the Competent Authority of MSETCL, if any. (d) The Price Variation shall be calculated from Date of Placement of Order (Letter of Award) or Four (04) Months after Published Date of Opening (Including Extension, if any) of Techno-Commercial Bid of Tender whichever is earlier. (e) A Ceiling / Capping of Twenty Percent (20%) on Positive Price Variation and no Ceiling / Capping on Negative Price Variation shall be applicable for the purpose of Payment of Price Variation as above.</p>	<p>Base date for Price Variation shall be one month prior to the original Bid opening date, irrespective of actual technical Bid opening date. The same is followed by almost all utilities for price variation. However the basic cost applicable for claiming price variation shall be the ruling price of raw materials and all India average consumer price index number for individual workers in the manner prescribed here under. <u>(i) When the material is offered within stipulated delivery schedule</u> For allowing P.V. the date of delivery shall be considered the date on which material is notified as being ready for inspection (date of receipt of inspection call in the office, if the offered material is lying ready) or the date of actual delivery. <u>(ii) When the material is offered after expiry of stipulated delivery schedule</u> For allowing P.V. in the cases the supplies are made after the expiry of scheduled delivery, the price prevailing in the last month of the stipulated scheduled delivery or the date on which material is notified as being ready for inspection (date of receipt of inspection call in the office if the offered material is lying ready) or actual date of delivery.</p>	No change

Annexure-A
MSETCL Tender No. SP/T-0512/0724 (RFx 500001234)

Sr. No.	Reference	As per Tender Document	Pre-Bid Query of Bidder(s)	Clarifications from MSETCL
	Clause No. 2.0 of Section-III (Continued...)		<p>(iii) When the material is offered ahead of delivery schedule on the request of MSETCL In case of urgency of material, if supplies are accepted ahead of delivery schedule, PV shall be allowed on the basis the material is notified as being ready for inspection (date of receipt of inspection call in the office if the offered material is lying ready) or the actual date of delivery.</p> <p>(iv) When the material is offered ahead of delivery schedule by firm at their own and accepted by MSETCL on the request of firm In case firm offers supplies ahead of delivery schedule at their own and such request is accepted by MSETCL, the price prevailing in the first months of stipulated delivery schedule or the date on which material is notified as being ready for inspection (date of receipt of inspection call in the office if the offered material is lying ready) or actual date of delivery .</p>	
3	Clause no. 6.0.3/16.1.04	<p>METAL TANK: The metal tanks shall have only the bare minimum number of welded joints so as to minimize the possible locations of oil leakage. The metal tank shall be made out of Stainless Steel / Casted Aluminium. Thickness of metal tank shall be greater than or equal to 6 mm. The tanks shall be coated with at least two coats of zinc rich epoxy painting/ hot dipped and galvanized tanks. All the ferrous hardware exposed to atmosphere shall be hot-dip galvanized. All the fixing nuts, bolts, washers, etc. used in the live parts shall be of stainless steel.</p>	<p>Since, the tank is offered in Aluminium cast alloy, the tank shall have natural finish, no painting or hot dip galvanize required.</p> <p>Bidder is using Aluminium casted tank with natural finish, as they don't have stainless steel design. They confirmed that, Al tank for CTs are 6 mm thick & are type tested for Electrical/Mechanical/Pressure tests.</p> <p>It is proposed Aluminium fabricated tank against requirement of stainless steel/Aluminium casted, requested to accept the same.</p> <p>The metal tank shall be made out of Aluminium. Thickness of metal tank shall be in line with past approved drawing of MSETCL. Since the offered tank shall be of Aluminium, painting/Hot dip galvanization is not applicable</p> <p>In case of Stainless Steel the thickness of the metal tank will be greater than or equal to 6mm is not possible & also HDG is not possible on SS/Aluminium Tank. The tank will be coated with at least two coats of zinc rich epoxy painted only. All the ferrous hardware exposed to the atmosphere will be hot-dip galvanized. All the fixing nuts, bolts, washers etc used in the live parts will be of stainless steel.</p>	<p>Accepted</p> <p>As per the Technical Specification</p> <p>As per the Technical Specifications.</p> <p>As per Technical specification.</p>
4	Clause no. 13.1.2	<p>PRIMARY WINDING: Primary winding shall be bar type for dual ratio CTs made out of high conductivity Copper/Aluminium. Conductors used for primary winding shall be rigid, or else housed in rigid metallic shell. However, for 03 (Three) ratio CTs, primary winding shall be of wound type made out of high conductivity Copper/Aluminium.</p>	<p>For 3 (Three) ratio CTs, primary winding shall be of bar type or wound type made out of high conductivity Copper/Aluminium.</p> <p>As mentioned in the specification "Conductors used for primary winding shall be rigid, or else housed in rigid metallic shell." Confirm the material of shell & the minimum thickness of the same.</p> <p>In case of Live Tank CTs, secondary's are kept inside the shell made of Aluminium alloy which forms equipotential & most important in case of fault current same will get earthed though pipe connected to the shell which prevent explosion of CT tank.</p>	<p>As per the Technical Specification</p> <p>Casted Alluminium, Thickness of 3 to 6mm.</p>

Annexure-A
MSETCL Tender No. SP/T-0512/0724 (RFx 5000001234)

Sr. No.	Reference	As per Tender Document	Pre-Bid Query of Bidder(s)	Clarifications from MSETCL
	Clause no. 13.1.2 (Continued...)		<p>The winding shall be made up of copper only, however HV terminal shall be of Aluminium.</p> <p>For Live Tank type current transformers, it is always the secondary cores that are to be encased in a rigid “shell” . However no where in the specification, material or type of shell has been specified. The purpose of “shell” in live tank current transformers, is to encase the secondary cores, provide equipotential & most importantly ensure the fault current in event of fault is guided through the shell-pipe connection to earth, preventing explosion of top tank, in live tank design. Hence the shell should necessarily be of cast aluminum with specified minimum thickness.</p> <p>The other way of providing equipotential is without “aluminum shell”, by using conducting material like aluminum foil, black semiconducting paper etc. Which do provide equipotential for tan delta/partial discharge measurement, but do not provide fault current protection as “ AluminumShell”.</p> <p>Requested to clarify the Clause, the shell should be rigid aluminium casted, with some minimum thickness or aluminium foild taped around cores shall suffice.</p>	<p>As per the Technical Specifications.</p> <p>Casted Alluminium, Thickness of 3 to 6mm.</p>
5	Clause no. 6.0.2.1	<p>BUSHING INSULATOR (PORCELAIN/ SILICON COMPOSITE INSULATOR): The Instrument Transformers shall be porcelain-clad and oil filled units suitable for outdoor Installation. The porcelain housing shall be of a single-piece construction for 145 kV/245 kV/420 kV class.</p>	<p>For 245kV CT/IVT & 420kV CTs single piece high creepage porcelain insulator are not being manufactured due to length constraint. Requested to accept the porcelain insulator with epoxy joint as per IEC.</p> <p>For 245kV& 420kV CT single piece, higher creepage porcelain bushing are not being manufactured due to length constraint. 245/420kV bushings are being manufactured with epoxy joint as per IEC.</p>	<p>Shall be accepted as per IEC. To be validated with relevent type test.</p>
6	NIT	145kV Neutral Current Transformer	<p>Technical parameters of 145kV NCT (VA burdan, no. of cores & accuracy class of each core).</p>	30VA, 1 core,PX class
7	Clause no. 14.0.0	GTP: Minimum Knee pont voltage (Vk) & Magnetizing current (Excitation current) Ie & (Rct: CT Secondary winding resistance) RCT (in ohms)	<p>Clear value of Rct: CT Secondary winging resistance for all the ratio of 132kV CT.</p>	AS per Technical specification.