



**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.**  
**(CIN No.U40109MH2005SGC153646)**

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SP/T-0609/1021/

Date: 12.11.2021

AMENDMENT NO.-II

**Sub:** Procurement and Retrofit of Existing Old Quadruple Break SF6 Circuit Breakers (Supply, Erection, Testing & Commissioning) by New one alongwith Dismantling of Existing 400kV Quad Circuit Breakers for HVDC-I & II Line Bays at owners yard of 400kV Chandrapur & Padghe S/s. - **Issue of Clarification/ Amendment to tender document in response to Bidder's queries.**

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Please refer e-Tender No. SP/T-0609/1021 [RFx. No. 5000000942], advertised for procurement and retrofit of Existing Old Quadruple Break SF6 Circuit Breakers (Supply, Erection, Testing & Commissioning) by New one alongwith Dismantling of Existing 400kV Quad Circuit Breakers.

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

All participant bidders are requested to take note of the above and submit their bids accordingly. All other terms and conditions of the Tender specifications remain unchanged.

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Executive Engineer (St.-VI)

**Annexure - I (Clarification to Pre-Bid Queries)**

**SP/T-0609/1021 [Procurement of 420 kV Quad Circuit Breaker] (RFX No.500000942)**

S.No.	Documents Name	Clause No.	Specification Requirement	Technical Comment	MSETCL Reply	Amendment to Tender
1	Annexure 'A' Section III	14.1	<b>Eligibility for Bidding</b> The bidder shall invariably declare the name of the manufacturer of the equipment offered and shall also indicate its country of origin (mandatory in case of imported items).	This clause implies is that in this bid dealers or EPC contractors can also bid. Kindly confirm our understanding.	Bidder who meets the Qualifying Requirement can participate.	--- NIL ---
2	Section I	2.1 (a)	<b>REQUIREMENT FROM TENDERERS:</b> The tenderer has proven experience of design, manufacture, testing, supply of similar material / equipment, which are in operation on the date of submission of the tender.	Our understanding is that bidder should be OEM which is contradicting above sl.no.1 statement of eligibility criteria. Kindly clarify that whether EPC contractor can participate or not.	Eligible Bidder shall meet the Qualifying Requirement.	--- NIL ---
3	TECH SPEC_QUAD CB FINAL	5.1.3	<b>Breaker foundation.</b> Replacement of new breaker using same foundation.	We understand that, bidder needs to construct new Civil foundation to installed offered quad break breakers and for that we need to get shutdown for minimum 25 days in order to complete retrofitting activity including CIVIL work (Including settling time). Further, shutdown at both the location shall not be at the same time and hence both site work shall not take place together. Kindly confirm	As per CI No 5.1.6 "All materials required for the erection work shall be supplied by the Contractor. Any other items not specifically mentioned in the specification but which are required for erection, testing and pre- commissioning and satisfactory operation of the breakers are deemed to be included in the scope of the specification unless specifically excluded." Further, as per clause no. 5.2 The retrofitting job shall be implemented within the shortest possible time period, as outages of long duration on various lines/equipment will not be possible. The successful bidder shall therefore, carryout all the detailed engineering well in advance.However , all efforts will be made by MSETCL to provide outage ( for retrofitting) for a reasonable period.	--- NIL ---
4	TECH SPEC_QUAD CB FINAL	6.1	<b>Type Test</b> Type test validity shall be 5 years from the date of NIT	As per latest CEA guidelines, The type test validity criteria for Circuit breaker shall be 10 years as on date of NIT. Considering the same, we request you to accept type test validity criteria of 10 years as on date of bid opening.	If there is no change in design , Validity of test period shall be as per latest CEA guidelines.	--- NIL ---

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S.No.	Documents Name	Clause No.	Specification Requirement	Technical Comment	MSETCL Reply	Amendment to Tender
5	TECH SPEC_QUAD CB FINAL	Annexure - II Point : 32	<b>Number of trip coils.</b> Total no. of coils shall be 6	As we are offering two mechanism per pole, Total trip coils shall be 12. Kindly confirm your acceptance for the same.	Yes. However it should match with the existing control & protection scheme of circuit breaker. Further as per cl no 5.1.4 the bidders are advised to visit the HVDC stations to acquaint themselves with the present arrangement and clarifications required, if any.	--- NIL ---
6	QDP CB_Section III_Final	2.0 (a)	<b>Price Basis</b> Price basis shall be Firm price basis only.	After covid-19 pandemic situation, we have seen huge cost variation in commodities prices which not possible to factored in precise manner. Considering this fact, we request MSETCL to accept the Prices on IEEMA PV variable prices considering the indices of Switchgear in order to offer better competitive prices.	The bid shall be on firm price basis only. PV will not be applicable.	--- NIL ---
7	Technical Specification	3.1.10	<b>Service Condition:</b> Seismic(Horizontal acceleration): 1g	Seismic in Horizontal acceleration asked as per specification is 1g. As per applicable IS requirement, 1g seismic acceleration is not applicable. Kindly confirm acceptance of 0.3g Seismic.	Yes, Accepted	The service condition requirement of Cl. No. 3.1.10 stands amended.
8	Technical Specification	6.0 (B) (1)	<b>Tests:</b> Routine Test/ Acceptance Tests 1. Power Frequency Withstand (dry and wet test)	We will conduct dry power frequency test as part of routine test. However, Power Frequency wet test is not applicable for 420kV Circuit breaker as per IEC 62271-100. Kindly provide your acceptance on the same.	Yes, Accepted	The Routine Test/ Acceptance Tests requirement of Cl. No. 6.0 (B) (1) stands amended.
9	Technical Specification	6.0 (B) (6)	<b>Tests:</b> Routine Test/ Acceptance Tests 6. DCRM Test: Dynamic Contact resistance measurements shall be taken as reference for comparing the same during operation and maintenance in order to ascertain the healthiness of contacts.	As per IEC, contact resistance measurement test shall be performed. However, DCRM test is not part of routine test as per IEC, being a special test. Kindly provide your acceptance & clarify if all the routine tests as per IEC shall be accepted.	Yes, Accepted	The Routine Test/ Acceptance Tests requirement of Cl. No. 6.0 (B) (6) stands amended.

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S.No.	Documents Name	Clause No.	Specification Requirement	Technical Comment	MSETCL Reply	Amendment to Tender
10	Technical Specification	GTP - Annexure-II (42)	Calculations/ Test Report furnished in support of uniform voltage distribution across multi break interrupters	For uniform distribution of voltage, Grading capacitor shall be offered. Kindly confirm.	Yes ,Grading Capacitor is required	-- NIL --
11	Technical Specification	5.1.1 (a)	Supply of 02 numbers of complete sets of 420 kV, 3150 A, 50 kA for 3 sec Quad Break (4 Break in series with common control of operating mechanism) circuit breaker with grading capacitor and without PIR for HVDC I & II bay along with support structure, hardware, foundation bolt, marshalling box and terminal connectors etc.	The Circuit breaker shall be used in HVDC Bay I & II. Kindly provide the clear SLD indicating the CB to be replaced as the SLD present in technical specification is not legible. Also please confirm the application of these Circuit breakers in the HVDC bay.	Copy of SLD is attached herewith.	-- NIL --
12	Technical Specification	5.1.1 (d)	Supply of mandatory spares for operation of the above circuit breakers.	Mandatory spare list is not mentioned. Kindly provide the same	Bidder has to provide the mandatory spare list for the offered breaker	-- NIL --
13	Technical Specification	5.16.5	Purchaser's power cables will be of 1100 Volt grade stranded aluminum conductor.PVC insulated PVC sheathed single steel wire armoured and PVC jacketed. All necessary cable terminating accessories such as glands, crimp type tinned copper lugs etc. for power as well as control cables shall be included in Vendor's scope of supply. Suitable brass cable glands shall be provided for cable entry.	Power & Control cable: Please confirm the scope of supply of Power & Control Cable from control room to circuit breaker. If the supply of new cable then please confirm the size & length of Power & control cable from control room to Circuit breaker. Alternatively If usages of existing cable from control room to circuit breaker then please confirm.	Supply of power & control cable is not considered under the scope of work of present bid.	-- NIL --