

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
CIN No. : U40109MH2005SGC153646

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SP/T-0613/0724

Date: 26.07.2024

CORRIGENDUM NO.1

Sub:- SITC of capacitor banks of voltage ratings of 11kV,22kV& 33kv—525 MVAR in Phase-VI [6.2] at various EHV substations under Pune zone in MSETCL [1st call] against e-Tender No.SP/T-0613/0724 (Rfx No.7000032037) submission due on 02.08.2024.--- **Reply to Pre-Bid queries and extension in due date of submission and opening thereof.**

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Please refer e-Tender No. SP/T-0613/0724 (Rfx No. 7000032037) advertised for subject works.

Bidders are requested to take a note that the **Reply to the Pre-Bid Queries** is attached herewith as “ANNEXURE-A” .

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

- i) Due date and time of Submission of bid : 16.08.2024 upto 17:00 Hrs.
- ii) Due date and time of Opening of bid : 16.08.2024 at 17:15 Hrs.

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

Sd/-

Executive Engineer (St-VI)

ANNEXURE-A
REPLY TO PRE-BID QUERY OF M/S.SHREEM ELECTRIC PVT. LTD.,JAYSINGPUR

Sr. No.	Description	Existing Clause	Bidder's Query	MSETCL Reply
1	PV is applicable for Major equipments i.e. Circuit breakers, instrument transformers, isolators, relay panels, structural steel, and control and power Cables, Conductors, Lightning Arrester. For all other materials/equipments PV is not applicable.	Page No.14, Book-I, CL-8.3.3	Please note that All other State Electricity Boards are paying PV as applicable as per IEEMA PV Clause. Further Capacitor RAW materials are imported and also Series Reactors are manufactured from Aluminium/Copper and hence prices are always volatile and depends upon International/Local markets Tariffs.Hence Kindly allow PV clause for Capacitor and Reactors also. We are enclosing herewith other utility tender clauses for your reference	<u>No Change.As per tender Document</u>
2	Specification	Designed Voltage	As per Specification, Highest System voltage is 36 KV, 24 KV, 12 KV. We have earlier supplied capacitor of voltage 7.31 KV. Accordingly rating of Capacitor Bank is 38 KV (With 3 Series groups), 25.32 KV (With 2 Series Groups), 12.65 (With 1 Series group). Kindly confirm unit Voltage. Accordingly capacitor bank voltage will be calculated.	<u>Detail unit rating pertaining to each Capacitor bank has to be designed & shall be offered for approval by OEM during detailed engineering/approval stage.</u>
3	Circuit Breaker Specification	SF6	As per Technical Specification, circuit breaker for 11 KV, 22 KV, 33 KV Capacitor Bank is SF6 . Since completion period is very short and looking at urgency, we request you to kindly consider VCB for 11 KV,22 KV & 33 KV.	11kV / 22kV / 33kV Outdoor Type VCB to be considered.
4	C&R Panel		In Tender Document, C&R Panel specification covers feeder panels. We request you to kindly provide C&R Panel Specification for Capacitor Bank Only	Protection philosophy will be finalised during detailed engineering / approval stage.
5	Capacitor & Series Reactor	GENERAL TECHNICAL REQUIREMENTS: Cl. 6.2 The shunt capacitor should be designed for satisfactory operation even with presence of Harmonics in the system. For the purpose of shunt capacitor design, values of 6%, 3%, 8% and 2% of second, third, fifth and seventh Harmonic level should be assumed.	Please note that as per GTP & Price schedule, Series Reactor is 0.2 % which is to limit inrush current & not as per Harmonic load condition. Hence we request you to kindly confirm Series Reactor %.	As per technical specification.

6	Price Schedule	132 KV Karjagi Substations	As per price schedule it is mentioned as "Additional hardwiring (Including BCU, ethernet switches, LIU, Patch cord, Media converter, etc) and necessary changes/enhancement in the existing substation automation system in order to integrate the additional new bay in the SAS (for different make than that of existing system)" we request you to kindly clarify scheme.	<p><u>15 MVAR 33 kV 1 No. Capacitor Bank information at 132 kV Karajgi S/Sn</u></p> <p><u>1) Existing SCADA is of AREVA make in working condition.</u></p> <p><u>2) 1 no. of 33 kV Capacitor Bank bay can be accomadated in the present SAS panel with requirement of BCU in new capacitor bay panel.</u></p> <p><u>3) Supply Part is consider with Scope of integration in existing SAS panel.</u></p> <p><u>2) DC voltage is of 220 V DC</u></p>
7	Price Schedule	Various Substations	<p>For various substations, various equipments Quantity is mentioned as zero. We request you to kindly confirm only those items mentioned in Price Schedule are in scope of bidder. If equipments are already available in substations same shall be in healthy conditions and guarantee of these equipment shall not be in bidder scope.</p> <p>Details of such locations -132 KV Janai, 132 KV Yawat (33 KV bank), 132 KV Someshwarnagar, 132 KV Bawda, 132 KV velapur, 220 KV Pandharpur (1X10 MVAR)</p>	<p><u>1. As per tender term and conditions.</u></p> <p><u>2. Exact quantity is to be supplied as per site condition. Before dispatch of material, quantity of material should be get approved from the concern field Executive Engineer.</u></p>
8	Price Schedule	132 KV Bawda Substation Substations	Please Provide Civil Price Schedule	<u>Civil work already exist.</u>
9	Request for Extesnion of Due Date of tender		This project involves lot of activities like taking BG, CA Certificate, bought out quotations, etc. Also quantity in this project is also large and Time for preperation of offer is very short. Hence, We request you to kindly extend due date of tender by atleast 15 days.	<u>No Provision for Tender Extension as mentioned in Tender Document</u>

ANNEXURE-A
REPLT TO PRE-BID QUERY OF M/s. UNIVERSAL CABLES LIMITED,MUMBAI

Sr. No.	Description	Existing Clause	Bidders Queries	MSETCL's Reply
1	Bid Security	The tender documents do not specify to whom we can mark the bid security	The tender documents do not specify to whom we can mark the bid security. As confirmed verbally, we mark the bid security as "Manager (SP), Central Purchase Agency, Prakashgad, MSETCL C.O. Mumbai" Please confirm.	<u>Can be Submitted to "Manager (SP)/E.E (Group-VI), CPA, Prakashgad,MSETCL,C.O.,Mumbai</u>
2	Bid Due Date and Time	02.08.2024 at 17.15 Hrs.	In this project, lots of things are involved such as Site Survey, finalisation of the brought out material. Time for the offer preparation is very less. We request you to kindly extend the tender due date by at least one week.	<u>No Provision for Tender Extension as mentioned in Tender Document</u>
3	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure Supply Estimation Sheet	As per the supply estimation sheet the Short Time Current (Fault level) for the circuit breaker, CT and the Isolator is 25kA /3 sec but as per the Capacitor bank technical Specification Annexure is 31.5kA/1 sec	Please confirm the Short Time Current (Fault level) for Circuit Breaker, Isolator and CT.	<u>Short Time Current (Fault level) for the equipment's shall be consider as 31.5kA/1 sec as per the latest CEA regulations.</u>
4	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure Supply Estimation Sheet	As per the supply estimation sheet (220kV Jeur Substation) the Aux. DC supply for the numerical protection relay, Annunciatin Scheme and MFM is 110VDC but as per the Capacitor bank technical Specification Clause 3.0 Operating condition the DC Aux. DC supply is 220VDC	As per the supply estimation sheet (<i>220kV Jeur Substation</i>) the Aux. DC supply for the numerical protection relay, Annunciatin Scheme and MFM is 110VDC but as per the <i>Capacitor bank technical Specification Clause 3.0 Operating condition the DC Aux. DC supply is 220VDC</i>	<u>220V D.C Aux Supply is available</u>
5	Estimation Quantity Scope of work, Sr. No. 1	For 132/33/11 KV Indapur Substation 11kV 2X5 MVAR Capacitor Bank a)Isolator without EB alongwith insulator & support structure Quantity is mentioned as 3 Nos. instead of 2 Nos. resp. b) Surge Arrester's Voltage Class and Qty. as 22kV & 3 Nos. and 11kV & 6 Nos. c) In Supply sheet there is Note of required quantity of the series reactor per capacitor bank is 3 Nos. instead of 6 Nos.	a) Consider 2 Nos. of Isolator with without EB quantity for Indapur Substation. b) Please confirm the 22kV Surge Arrester required or not. C) Please confirm the Series Reactor quantity.	<u>Exact quantity is to be supplied as per site condition. Before dispatch of material, quantity of material should be get approved from the concern field Executive Engineer</u>
6	Estimation Quantity Scope of work, Sr. No. 30.2	For 132KV Solapur MIDC Substation 11kV 1X5 MVAR Capacitor Bank, Isolator without EB and with EB alongwith insulator & support structure Quantity is mentioned as 3 Nos. instead of 1 Nos. resp.	Consider 1 Nos. of Isolator with without EB and with EB quantity for Indapur Substation.	<u>Exact quantity is to be supplied as per site condition. Before dispatch of material, quantity of material should be get approved from the concern field Executive Engineer</u>
7	Estimation Quantity Scope of work, Sr. No. 3.1	For 132/33/22KV Daund Substation 22kV 1X10 MVAR Capacitor Bank, As per the supply estimation sheet the Short Time Current (Fault level) and Voltage class of the circuit breaker, CT and the Isolator is 25kA /3 sec & 33kV but as per the Capacitor bank technical Specification Annexure I, J &K , it is 31.5kA/1 sec & 22kV.	Please confirm the Short Time Current (Fault level) and voltage class for Circuit Breaker, Isolator and CT.	<u>Short Time Current (Fault level) for the equipment's shall be consider as 31.5kA/1 sec as per the latest CEA regulations.</u>
8	Estimation Quantity Scope of work, Sr. No. 7	For 220/33KV Bhigwan Substation 33kV 2X5 MVAR Capacitor Bank, As per the supply estimation sheet given quantity of the Circuit Breaker, CT, Isolator is sufficient for only 1x5MVAR capacitor Bank but as per scope it 2x5MVAR.	Please confirm the quantity of the Circuit Breaker, CT and Isolator.	<u>No change as 01 No's Spare Bay available ,the Equipment of same is proposed to utilize for 1x5MVAR & therefore propoed the supply 01 No's of bay equipments scope for 2x5MVAR Bank</u>

9	Estimation Quantity Scope of work, Sr. No. 12	For 132/33KV Someshwarnagar Substation 33kV 2X5 MVAR Capacitor Bank, As per the supply estimation sheet, Circuit Breaker, CT, Isolator are not mentioned in it.	Please confirm the quantity of the Circuit Breaker, CT and Isolator.	No change as 02 No's Spare Bay available, the Equipment of same shall be utilized for 2x5MVAR Bank
10	Estimation Quantity Scope of work, Sr. No. 16.1	For 220KV Pandharpur Substation 33kV 1X(10-5) MVAR Capacitor Bank. As mentioned in Supply Estimation Sheet for 2x5MVAR, Unit of the control cable is mentioned as per cable.	Please check and confirm the 2x5MVAR. Supply and Erection sheet	No change as 33kV2x5MVAR Bank is available & to be dismantled & same is to be used & erect as 33kV 1x10MVAR. This is an erection activity & shall not be considered in supply part. No Change in erection part of the unit of Cable Termination as per cables or nos having same meaning.
11	Estimation Quantity Scope of work, Sr. No. 21	For 132KV Kurduwadi Substation 33kV 2X10 MVAR Capacitor Bank, As per the supply estimation sheet given quantity of the NCT is 1 No. But as per technical specification required NCT for is 2 Nos.	Please confirm the quantity of the NCT.	<u>Exact quantity is to be supplied as per site condition. Before dispatch of material, quantity of material should be get approved from the concern field Executive Engineer</u>
12	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure B, H & N	Purpose of the Series Reactor is Inrush & Harmonics current limiting and % impedance of series reactor is 0.2%.	According to the provided percentage impedance, a 0.2% series reactor is only suited for inrush current limiting, not harmonics. Furthermore, the given connection to the series reactor is neutral. Hence the number of the series reactor required for one bank is 6 Nos. In the case of harmonic current limitation, the series reactor's impedance should be 6%-7%, depending on the harmonic orders available in the system, and it must be connected to the capacitor bank's line end. As a result, the reactor's size will rise, necessitating three series reactors rather than six per bank. Please confirm.	<u>As per technical specification.</u>
13	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure D, J & P	Type of the series reactor is Outdoor, SF6, Gang operated. The circuit breaker type and the given Ex-works Price is of VCB.	For the 11kV system SF6 breakers are not available. Please confirm the type and consideration of Ex-works price for the 11kV as well as 33kV system.	<u>11kV / 22kV / 33kV Outdoor Type VCB to be considered.</u>
14	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure	As per the supply estimation sheet the Short Time Current (Fault level) for the circuit breaker, CT and the Isolator is 25kA /3 sec but as per the Capacitor bank technical Specification Annexure is 31.5kA/1 sec	Please confirm the Short Time Current (Fault level) for Circuit Breaker, Isolator and CT.	<u>Short Time Current (Fault level) for the equipment's shall be consider as 31.5kA/1 sec as per the latest CEA regulations.</u>
15	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure Supply Estimation Sheet	As per the supply estimation sheet (220kV Jeer Substation) the Aux. DC supply for the numerical protection relay, Annunciator Scheme and MFM is 110VDC but as per the Capacitor bank technical Specification Clause 3.0 Operating condition the DC Aux. DC supply is 220VDC	Please confirm DC Aux. supply.	<u>220V D.C Aux Supply is available</u>
16	33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 The Control and Relay panel Specification	The given C&R Relay panel specification is applicable for the Feeder C&R panel.	The given C&R Relay panel specification is not applicable for the capacitor bank. Please provide the specification for the Capacitor bank C&R Panel.	<u>Protection philosophy will be finalised during detailed engineering / approval stage.</u>

ANNEXURE-A

REPLY TO PRE-BID QUERY OF M/S.ABPS SOLUTIONS PVT. LTD.,PUNE

Sr. No.	Reference Document/Clause no	Description	Existing Clause	Bidder's Query	MSETCL Reply
	IFB /Eligibility (Technical Bid)/Clause no 2.2 C & D	Clariity on Technical Requirement	As per clause 2.2 a & b Bidder can have JV with Capacitor bank manufactrer or vice versa.	<p>As per clause no. 2.2 a) Single work order 80% - it means to be calculate 51% to 80% ordervalu is applicable</p> <p>(b) Two work order 50% - it means 41% to 50% order value is applicable</p> <p>(c) Three work order 1% to 40% order valie is applicable for tender qualification.</p> <p>Because of exact % cant be matched so we request to you please amend caluse like that enable us help all participatant OR</p> <p>60% Order of Total Tender MVAR.</p> <p>Also consider Export supply orders credentials it is additional help us to achive a target</p>	<u>No Change</u>