

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
CIN No. : U40109MH2005SGC153646

Name of Office: Central Purchase Agency,
Office Address: Prakashgad, 1st Floor, Plot No G-9, Anant Kanekar Marg, Bandra (East),
Mumbai-51
Contact No.: 022-26474211/26472131
Email Id: cecpa@mahatransco.in

SP/T-0616/0724

Date: 26.07.2024

CORRIGENDUM NO.1

Sub:- SITC of capacitor banks of voltage ratings of 11kV,22kV& 33kv—305 MVAR in Phase-VI [6.4] at various EHV substations under Pune zone in MSETCL [1st call] against e-Tender No.SP/T-0616/0724 (Rfx No.7000032040) submission due on 02.08.2024.--- **Reply to Pre-Bid queries and extension in due date of submission and opening thereof.**

.

Please refer e-Tender No. SP/T-0616/0724 (Rfx No. 7000032040) 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 : 08.08.2024 upto 17:00 Hrs.
- ii) Due date and time of Opening of bid : 08.08.2024 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 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 | No change.As per Tender Document. |
| 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 Chakan Substations | We request you to kindly delete scope of Station transformer, ACDB & AC lighting DB (Outdoor) which is not part of Capacitor bank bay. | <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 | Price Schedule | 220 KV Pegasus Substation | We request you to clarify scheme. Also confirm Capacitor bank is indoor or outdoor. Please provide specification for Indoor Switchgear panel. We request you to kindly take indoor Switchgear in VCB switchgear in your scope due to limited manufacturer. | <u>As per Tender documents please consider outdoor</u> |

| Sr. No. | Description | Existing Clause | Bidder's Query | MSETCL Reply |
|---------|---|-----------------------------|--|---|
| 8 | Price Schedule | 220 KV Flagship substations | We request you to clarify scheme. Also confirm Capacitor bank is indoor or outdoor. Please provide specification for Indoor Switchgear panel. We request you to kindly take indoor Switchgear in VCB switchgear in your scope due to limited manufacturer. | Proposed capacitor bank is outdoor, however bay for cap. bank is indoor. Indoor switch gear panel should include VD4 CB and should be extendable with existing ABB indoor feeder panels. Existing Indoor ABB feeder panel specifications : Switchgear Type-VHA36, Rated vtg-33kV(22kV system).Basic Insulation level-36/70/170 kVp, Busbar current-2000A, STC:26.3 KA/1SEC, Control voltage-220V DC. In addition to this ,following protection relays for capacitor bank are required-Numerical O/C and E/F protection Over Voltage,Under Volatge protection, Unbalance protection with MFM and annuiciation scheme suitable for 110V / 220V DC |
| 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. | No Extension provision to tender as mentioned in Tender Document. |

ANNEXURE-A
REPLY TO PRE-BID QUERY OF M/s. Universal Cables Limited, Mumbai

| Sr. No. | Existing Clause | Description | Bidder's Query | MSETCL Reply |
|---------|---|---|---|---|
| 1 | 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> |
| 2 | 33 kV_22kV_11kV Capacitor Bank Specification - 09.07.24 Annexure D, J & P Supply Price Schedule | 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. | 11kV / 22kV / 33kV Outdoor Type VCB to be considered. |
| 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, 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> |
| 5 | 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. | Protection philosophy will be finalised during detailed engineering / approval stage. |

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 (b) Two work order 50% - it means 41% to 50% order value is applicable (c) Three work order 1% to 40% order valie is applicable for tender qualification. Because of exact % cant be matched so we request to you please amend caluse like that enable us help all participatant</p> <p>OR 60% Order of Total Tender MVAR Also consider Export supply orders credentials it is additional help us to achive a target</p> | <u>No Change</u> |