

Amendment No-II dated 19.06.2026 to the Bidding Documents for **Package RCP-02 for retrofitting of existing conventional control and protection system with new IEC 61850 Process Bus bases Control & Protection System at 400kV Meerut Substation and 400kV Mandola Substation. Specification No.: CC/NT/W-MISC/DOM/A06/26/01785**

S. No	Clause/ Drg.Sl. NO	Existing provision	Amended provision
1	2.2.1 (a) Substation Automation System of section Project	<p>400/220kV Meerut Substation is to be equipped with substation Automation system based on IEC 61850 based process bus under present scope for bays mentioned in the Cl 2.1 above.</p> <p>Meerut Substation have 765kV, 400, 220kV Switchyards. Presently all 765kV bays, 5 nos. 400kV diameters and 2 nos. 220kV Bays are having separate Conventional SAS (Make: - Schneider) and balance 400kV and 220kV bays are having non automation convention control panel-based system. Under present scope, the bays having non automation control panel-based system shall be retrofitted with new Process bus-based control, protection and automation system.</p> <p>The communication between process level IEDs and Bay level IEDs is proposed to be with high-speed optical bus (Process bus). In the present scope, bidder shall include BCUs required for present scope bays including all necessary hardware and software to integrate with the Substation Automation System including preparation of system database, displays, and development of additional displays and reports as per requirement. The necessary interface equipment at Meerut substation for transferring data to RCC & RSCC, etc. on OPGW link is also under present scope. No work at remote end is envisaged under present scope.</p> <p>As the instrument transformer and switchgear under present scope are of conventional type, for exchange of information between switchgear and instrument transformers, “Merging Units & Switchgear Controller IEDs”, as applicable, for Process Bus based SAS shall be considered under the scope of the contract. Switchgear Controllers (SGCs) shall be used as digital interfaces between switchgear and bay level IEDs.</p>	<p>400/220kV Meerut Substation is to be equipped with substation Automation system based on IEC 61850 based process bus under present scope for bays mentioned in the Cl 2.1 above.</p> <p>Meerut Substation have 765kV, 400, 220kV Switchyards. Presently all 765kV bays, 5 nos. 400kV diameters and 2 nos. 220kV Bays are having separate Conventional SAS (Make: - Schneider) and balance 400kV and 220kV bays are having non automation convention control panel-based system. Under present scope, the bays having non automation control panel-based system shall be retrofitted with new Process bus based control, protection and automation system.</p> <p>The communication between process level IEDs and Bay level IEDs is proposed to be with high-speed optical bus (Process bus). In the present scope, bidder shall include BCUs required for present scope bays including all necessary hardware and software to integrate with the Substation Automation System including preparation of system database, displays, and development of additional displays and reports as per requirement. The necessary interface equipment at Meerut substation for transferring data to RCC & RSCC, etc. on OPGW link is also under present scope. No work at remote end is envisaged under present scope.</p> <p>As the instrument transformer and switchgear under present scope are of conventional type, for exchange of information between switchgear and instrument transformers, “Merging Units & Switchgear Controller IEDs”, as applicable, for Process Bus based SAS shall be considered under the scope of the contract. Switchgear Controllers (SGCs) shall be used as digital interfaces between switchgear and bay level IEDs.</p>

Amendment No-II dated 19.06.2026 to the Bidding Documents for **Package RCP-02 for retrofitting of existing conventional control and protection system with new IEC 61850 Process Bus bases Control & Protection System at 400kV Meerut Substation and 400kV Mandola Substation. Specification No.: CC/NT/W-MISC/DOM/A06/26/01785**

		<p>Similarly Merging Units & Digital Interface for Transformers/Reactors IEDs as applicable for Process Bus based SAS shall also be considered for the Transformers and reactors under present scope.</p> <p>Two Nos. of Redbox shall be provided for integrating Transformer and Reactor Monitoring equipment and digital RTCC relays with station bus. Integration of existing IEC 61850 compliant Transformer and Reactor Monitoring equipment (like DGA, ODS, FOTS etc.) and Digital RTCC relays with New SAS shall be covered under present scope.</p>	<p>Similarly Merging Units & Digital Interface for Transformers/Reactors IEDs as applicable for Process Bus based SAS shall also be considered for the Transformers and reactors under present scope.</p> <p>Two Nos. of Redbox shall be provided for integrating Transformer and Reactor Monitoring equipment and digital RTCC relays with station bus. Integration of existing IEC 61850 compliant Transformer and Reactor Monitoring equipment (like DGA, ODS, FOTS etc.) and Digital RTCC relays with New SAS shall be covered under present scope.</p> <p>Integration of existing Station Auxiliary BCU to new SAS is also under present scope. The above mentioned redbox shall be used for Aux BCU also.</p>
2	9.15 of Section Project	New Clause Added	Annexure_SAS_X: NextGen Firewall Stands Deleted.
3	9.16 of Section Project	New Clause Added	Requirement of 02 nos. of E1 interface for Substation Router specified at Sl. No.: 4.1.6 of section : SUBSTATION AUTOMATION SYSTEM rev 4A stands deleted.
4	Annexure-IV of section Project	Annexure-IV Rev-0	Annexure-IV rev 01