

Amendment-VI dated 20.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish “Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex” through tariff based competitive bidding process.

SI. N	Clause No.	Existing Clause	New/Revised Clause
1.	Clause C.1.0 of RFP & TSA Specific Technical Requirements for Communication	<p>C1.0 Sirohi – Mandsaur PS 765 kV D/C line</p> <p>I. On Sirohi – Mandsaur PS 765 kV D/C line, TSP shall supply, install and commission One (1) No. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak.</p> <p>II. The TSP shall install this OPGW from gantry of Sirohi up to the gantry of Mandsaur PS with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 320 km (approx.), where repeater may be required to meet the link budget requirement of Sirohi – Mandsaur PS 765 kV D/C line. The same shall be provided by TSP.</p> <p>III. TSP shall finalize the location of the repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1</p> <p>Maintenance of OPGW Cable and OPGW Hardware shall be the responsibility of TSP.</p>	<p>C1.0 Sirohi – Mandsaur PS 765 kV D/C line</p> <p>I. On Sirohi – Mandsaur PS 765 kV D/C line, TSP shall supply, install and commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.</p> <p>II. The TSP shall install this OPGW from gantry of Sirohi up to the gantry of Mandsaur PS with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 320 km (approx.), where repeater may be required to meet the link budget requirement of Sirohi – Mandsaur PS 765 kV D/C line. The same shall be provided by TSP.</p> <p>III. TSP shall finalize the location of the repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1</p> <p>Maintenance of OPGW Cable and OPGW Hardware shall be the responsibility of TSP.</p>

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2.	Clause C.2.0 of RFP & TSA Specific Technical Requirements for Communication	<p>C.2.0 Mandsaur PS – Khandwa (New) 765 kV D/C line</p> <p>I. On Mandsaur PS – Khandwa (New) 765 kV D/C line, TSP shall supply, install and commission One (1) No. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak.</p> <p>II. The TSP shall install this OPGW from gantry of Mandsaur PS up to the gantry of Khandwa (New) S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 260 km(approx.), where repeater may be required to meet the link budget requirement of Mandsaur PS – Khandwa (New) 765 kV D/C line. The same shall be provided by TSP.</p> <p>III. TSP shall finalize the location of the repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1</p> <p>IV. Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.</p>	<p>C.2.0 Mandsaur PS – Khandwa (New) 765 kV D/C line</p> <p>I. On Mandsaur PS – Khandwa (New) 765 kV D/C line, TSP shall supply, install and commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.</p> <p>II. The TSP shall install this OPGW from gantry of Mandsaur PS up to the gantry of Khandwa (New) S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 260 km(approx.), where repeater may be required to meet the link budget requirement of Mandsaur PS – Khandwa (New) 765 kV D/C line. The same shall be provided by TSP.</p> <p>III. TSP shall finalize the location of the repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1</p> <p>IV. Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.</p>
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3.	<p>Clause C.3.0 of RFP & TSA</p> <p>Specific Technical Requirements for Communication</p>	<p>C.3.0 FOTE requirement at Sirohi</p> <p>(I) TSP shall supply, install and commission 2 No. FODP <u>(96F or higher)</u> and 1 No. FODP <u>(48F or higher)</u> alongwith panel and required Approach Cable <u>(24F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Ten (10) directions with MSP (Multiplex Section Protection – 1+1) These directions shall exclude protected (1+1) local patching among equipment (if any). TSP shall provide necessary interfaces to meet the voice and data communication requirement between Sirohi to Mandsaur PS and local patching with Control Room FOTE. Out of these ten directions, six (6) will be allocated for RE bays. Necessary optical interfaces to meet the voice and data communication requirement between Sirohi to 6 RE Bays shall be provided by the RE Generators at the time of connectivity with Sirohi S/s. Direction for these bays shall be considered by TSP in the FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the FOTE at control room of Sirohi which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in</p>	<p>C.3.0 FOTE requirement at Sirohi</p> <p>(I) TSP shall supply, install and commission 2 No. FODP <u>(192F or higher)</u> and 1 No. FODP <u>(96F or higher)</u> alongwith panel and required Approach Cable <u>(48F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Ten (10) directions with MSP (Multiplex Section Protection – 1+1) These directions shall exclude protected (1+1) local patching among equipment (if any). TSP shall provide necessary interfaces to meet the voice and data communication requirement between Sirohi to Mandsaur PS and local patching with Control Room FOTE. Out of these ten directions, six (6) will be allocated for RE bays. Necessary optical interfaces to meet the voice and data communication requirement between Sirohi to 6 RE Bays shall be provided by the RE Generators at the time of connectivity with Sirohi S/s. Direction for these bays shall be considered by TSP in the FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the FOTE at control room of Sirohi which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the</p>
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		<p>the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>	<p>existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>
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<p>4.</p>	<p>Clause C.4.0 of RFP & TSA Specific Technical Requirements for Communication</p>	<p>C.4.0 FOTE requirement at Mandsaur PS</p> <p>(I) TSP shall supply, install and commission 1 No. FODP <u>(96F or higher)</u> and 1 No. FODP <u>(24F or higher)</u> alongwith panel and required Approach Cable <u>(24F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Five (5) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Sirohi S/s, Mandsaur PS, Khandwa (new) and local patching with Control Room FOTE. These directions shall exclude protected (1+1) local patching among equipment (if any). The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the FOTE at control room of Mandsaur PS which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the FOTE at the control room, the TSP shall coordinate</p>	<p>C.4.0 FOTE requirement at Mandsaur PS</p> <p>(I) TSP shall supply, install and commission 1 No. FODP <u>(192F or higher)</u> and 1 No. FODP <u>(48F or higher)</u> alongwith panel and required Approach Cable <u>(48F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Five (5) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Sirohi S/s, Mandsaur PS, Khandwa (new) and local patching with Control Room FOTE. These directions shall exclude protected (1+1) local patching among equipment (if any). The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the FOTE at control room of Mandsaur PS which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the FOTE at the control room, the TSP shall coordinate</p>
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		<p>with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>	<p>with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>
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5.	<p>Clause C.5.0 of RFP & TSA</p> <p>Specific Technical Requirements for Communication</p>	<p>C.5.0 FOTE requirement at Khandwa (New)</p> <p>(I) TSP shall supply, install and commission 1 No. FODP (72F or higher) alongwith panel and required Approach Cable (24F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Khandwa(new), Mandsaar PS and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Khandwa (New) which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.</p>	<p>C.5.0 FOTE requirement at Khandwa (New)</p> <p>(I) TSP shall supply, install and commission 1 No. FODP (144F or higher) alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among Khandwa(new), Mandsaar PS and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Khandwa (New) which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.</p>
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		<p>Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>	<p>Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>
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6.	Appendix F.1: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION	<p>Repeater Requirements</p> <ul style="list-style-type: none"> If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide <u>1 No. OPGW (48F)</u> on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and <u>1 No. Approach Cable (48F)</u> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room. <p>TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.</p> <p>TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.</p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide <u>1 No. OPGW (48F)</u> on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and <u>1 No. Approach Cable (48F) / UGFO (48F)</u> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed. 	<p>Repeater Requirements</p> <ul style="list-style-type: none"> If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide) <u>OPGW to accommodate all the fibers in main transmission line</u> on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and <u>required approach Cable to accommodate all the OPGW fibers</u> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room. <p>TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.</p> <p>TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.</p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide <u>OPGW to accommodate all the fibers in main transmission line</u> on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and <u>required approach Cable/UGFO to accommodate all the OPGW fibers</u> with all associated hardware fittings, to establish connectivity between crossing point of main
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		<p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.</p> <p>OR</p> <ul style="list-style-type: none"> If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide <u>1 No. Approach Cable (48F) / UGFO (48F)</u> with all associated hardware fittings to establish connectivity up to the location of repeater shelter. <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems</p> <p>Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.</p>	<p>transmission line up to the substation where the repeater shelter is to be housed.</p> <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.</p> <p>OR</p> <ul style="list-style-type: none"> If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide <u>required approach Cable to accommodate all the OPGW fibers</u> with all associated hardware fittings to establish connectivity up to the location of repeater shelter. <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems</p> <p>Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.</p>
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<p>7.</p>	<p>Frequently Asked Queries: 3.3 Communication</p>	<p>3.3 How is the OPGW laying done in case of LILO lines? Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV & 765 kV lines where two E/W peaks are available. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW. In case LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV & 765 kV lines. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 24F OPGW in place of conventional earthwire.</p> <p>3.4 How is the OPGW laying done in case Multi circuit Towers? Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV & 400 kV lines. In case 220/132 kV lines using multi circuit portion where single E/W peak is available one no 48F may be installed for common multi circuit portion.</p>	<p>3.3 How is the OPGW laying done in case of LILO lines? Reply: In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x48F OPGW shall be required to install by TSP on both earthwire peak on 400 kV & 765 kV lines where two E/W peaks are available. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 96F OPGW. In case LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x48F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV & 765 kV lines. On 220 & 132 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW in place of conventional earthwire.</p> <p>3.4 How is the OPGW laying done in case Multi circuit Towers? Reply: In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 48F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV & 400 kV lines. In case 220/132 kV lines using multi circuit portion where single E/W peak is available one no 96F may be installed for common multi circuit portion.</p>
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