To
All Project Implementing Agencies,
DDUGJY-RE Projects XII Plan & DDUGJY/IPDS Scheme

Sub: Amendments in technical specification of AB Cable Accessories and Insulation Piercing Connectors (IPC) provided in Standard Bidding Document for DDUGJY-RE 12 Plan and DDUGJY/IPDS scheme.

Sir,
This has reference to the technical specifications of AB Cable accessories and Insulation Piercing Connectors (IPC) to be used DDUGJY-RE Projects XII Plan & DDUGJY/IPDS Schemes. In this connection, please find enclosed the amendments/corrections in clause 5.1.10.4, 5.2 & 5.3 of technical specification of AB Cable Accessories and Insulation Piercing Connectors (IPC) provided in Standard Bidding Document.

This is for information and further needful action please.

Yours sincerely,

G S BHATI
Executive Director (PMD-II/QA)

Copy to:
Sr. CPM/CPM, REC RO/SO- with a request to please circulate to PIAs in the states of your purview.
### AMENDMENT PROPOSED IN TECHNICAL SPECIFICATIONS OF CABLE ACCESSORIES OF SBD (DDUGJY)

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<th>Clause No. of SBD</th>
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<th>Amendments/ Recommendation</th>
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| 1     | 5.1.10.4         | Insulation Piercing Connector (IPC) | The following shall constitute Type Tests for IPC:  
- Electrical Ageing Test  
- Dielectric and Water Tightness Test  
- Mechanical Tightening Test  
- Effect of Tightening on main Core  
- Effect of Tightening on Branch core  
- Over-current Test (if applicable) | The following shall constitute Type Tests for IPC:  
- Electrical Ageing Test  
- Dielectric and Water Tightness Test  
- Mechanical Tightening Test  
- Effect of Tightening on main Core  
- Effect of Tightening on Branch core  
- Over-current Test (Applicable as per relevant clause of latest version of NFC 33020) |
| 2     | 5.1.10.4         | Suspension Assembly (SA) | The following shall be Type Test for Suspension Assembly (SA)  
- Mechanical Test  
- Voltage Test  
- Climatic Aging Test  
- Corrosion Test  
- **Endurance Test under Thermal & Mechanical Stresses.** | The following shall be Type Test for Suspension Assembly (SA)  
- Mechanical Test  
- Voltage Test  
- Climatic Aging Test  
- Corrosion Test  
- **Endurance Test under Thermal & Mechanical Stresses (optional till testing facilities are available in India)** |
| 3     | 5.1.10.4         | Anchoring Assemblies (AA) | The following shall be Type Tests for Anchoring Assemblies (AA)  
- Mechanical Test  
- Voltage Test  
- **Dynamic Test**  
- Climatic Aging Test  
- Corrosion Test  
- **Endurance Test under Thermal & Mechanical Stresses** | The following shall be Type Tests for Anchoring Assemblies (AA)  
- Mechanical Test  
- Voltage Test  
- **Dynamic Test (Applicable for areas having sub zero minimum temperature)**  
- Climatic Aging Test  
- Corrosion Test  
- **Endurance Test under Thermal & Mechanical Stresses** |
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| 4     | 5.2              | Anchoring Clamp for Insulated Messenger | The clamps should be designed to Anchor LT-AB cable with insulated messenger. The clamp should consist of an Aluminium alloy corrosion resistant castled body, bail of stainless steel and self adjusting plastic wedges which shall anchor/hold the neutral messenger without damaging the insulation.  
- No losable part in the process of clamping arrangement  
- The clamp should conform to the standard NFC 33041 and 33042 or equivalent I.S. if any.  
- The clamp body should be made of corrosion resistant Aluminum alloy, bail should be of stainless steel and wedges should be weather and UV resistant polymer.  
- **Ultimate tensile strength of the clamp should not be less than 15 km for 50/70 sq.mm insulated messenger wire / 10 KN for 25/35 sq.mm insulated messenger wire.**  
- **Slip load of the clamp should not be less than 3 KN for 50/70 sq.mm. messenger wire / 2 KN for 25/35 sq.mm. messenger wire.** | The clamps should be designed to Anchor LT-AB cable with insulated messenger. The clamp should consist of an Aluminum alloy corrosion resistant body, bail of stainless steel and self adjusting plastic wedges which shall anchor/hold the neutral messenger without damaging the insulation.  
- No losable part in the process of clamping arrangement  
- The clamp should conform to the standard NFC 33041 and 33042 or equivalent I.S. if any.  
- The clamp body should be made of corrosion resistant Aluminum alloy, bail should be of stainless steel and wedges should be weather and UV resistant polymer.  
- Ultimate tensile strength of the clamp should be as per Table-6 of Technical Specification. |
<p>| 5     | 5.3              | Suspension Clamp for insulated neutral messenger | The clamp should be designed to hang L.T – AB cable with insulated neutral messengers. The neutral messengers should be fixed by an adjustable grip device. A movable link should allow longitudinal and transversal movement of the clamp body. | The clamp should be designed to hang L.T – AB cable with insulated neutral messengers. The neutral messengers should be fixed by an adjustable grip device. A movable link should allow longitudinal and transversal movement of the clamp body. |</p>
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<td>• No losable part in the process of clamping arrangement.</td>
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<td>• The clamp should conform to the standard NFC 33040 or equivalent I.S, if any.</td>
<td>• The clamp should conform to the latest version of standard NFC 33040 or equivalent I.S, if any.</td>
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<td>• The clamp and the link made of Polymer should provide an additional insulation between the cable and the pole.</td>
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<td>• The clamps and movable links should be made of weather and UV resistant glass fibre reinforced polymer.</td>
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<td>• Clamps should be fixed with pole by eye hook / bracket. Bracket should be made of corrosion resistant aluminum alloy.</td>
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<td>• <strong>Ultimate tensile strength of the clamp should not be less than 15 KN for 50/70 sq.mm. Insulated messenger wire 4.3 KN for 25/35 sq.mm. Insulated messenger wire.</strong></td>
<td>• <strong>Ultimate tensile strength of the clamp should be as per Table-10 of Technical Specification.</strong></td>
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<td>• Maximum allowable load of the clamp should not be less than 20 KN for 50/70 sq.mm. insulated messenger wire/15 KN for 25/30 sq.mm insulated messenger wire.</td>
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