

REC/DDUGJY/SBD/2017-18/609

Date: 05.10.2018

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)

SI No	Clause No. of SBD	Heading in clause	Provision as per Technical Specification of SBD	Amendments/ Recommendation
1	5.1.10.4	Insulation Piercing Connector (IPC)	<p>The following shall constitute Type Tests for IPC :</p> <ul style="list-style-type: none"> • 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) \ 	<p>The following shall constitute Type Tests for IPC :</p> <ul style="list-style-type: none"> • 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)	<p>The following shall be Type Test for Suspension Assembly (SA)</p> <ul style="list-style-type: none"> • Mechanical Test • Voltage Test • Climatic Aging Test • Corrosion Test • Endurance Test under Thermal & Mechanical Stresses. 	<p>The following shall be Type Test for Suspension Assembly (SA)</p> <ul style="list-style-type: none"> • 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)	<p>The following shall be Type Tests for Anchoring Assemblies (AA)</p> <ul style="list-style-type: none"> • Mechanical Test • Voltage Test • Dynamic Test • Climatic Aging Test • Corrosion Test • Endurance Test under Thermal & Mechanical Stresses 	<p>The following shall be Type Tests for Anchoring Assemblies (AA)</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <ul style="list-style-type: none"> • 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 50/70sq.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. 	<p>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.</p> <ul style="list-style-type: none"> • 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.
5	5.3	Suspension Clamp for insulated neutral messenger	<p>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>	<p>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>

SI No	Clause No. of SBD	Heading in clause	Provision as per Technical Specification of SBD	Amendments/ Recommendation
			<ul style="list-style-type: none"> • No losable part in the process of clamping arrangement. • The clamp should conform to the standard NFC 33040 or equivalent I.S, if any. • The clamp and the link made of Polymer should provide an additional insulation between the cable and the pole. • The clamps and movable links should be made of weather and UV resistant glass fibre reinforced polymer. • Clamps should be fixed with pole by eye hook / bracket. Bracket should be made of corrosion resistant aluminum alloy. • 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. • 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. 	<ul style="list-style-type: none"> • No losable part in the process of clamping arrangement. • The clamp should conform to the latest version of standard NFC 33040 or equivalent I.S, if any. • The clamp and the link made of Polymer should provide an additional insulation between the cable and the pole. • The clamps and movable links should be made of weather and UV resistant glass fibre reinforced polymer. • Clamps should be fixed with pole by eye hook / bracket. Bracket should be made of corrosion resistant aluminum alloy. • Ultimate tensile strength of the clamp should be as per Table-10 of Technical Specification.