

NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

Kathmandu Valley East & South Distribution System Enhancement Project

Power Transmission and Distribution Efficiency Enhancement Project

PMD/PTDEEP/KVESDSEP-074/75 - 01: Enhancement of Distribution Networks in Central Region of Kathmandu Valley (Design, Supply, Installation and Commissioning of Underground Distribution Network under Ratnapark Distribution Center including Reinforcement and Automation)

Clarifications II on HT XLPE Cables

Sl. No.	Clause Reference	Queries	NEA Response										
1	1.15 Metallic Screen	Kindly note the required value of Earth fault of 25 KA for 3 Sec is too huge hence is commonly not desired. In general Industrial practice, Earth Fault of 0.3 KA for 1Sec is required. IF IN CASE 25 KA for 3 Sec is required, the same can be met by the combination of copper tape and copper wires (without LEAD SHEATH) WHICH shall EVENTUALLY lead to INCREASE THE COST OF THE CABLES manifolds in comaprison to that of the Normal. The implication of the prices comes around 4 times the normal prices, therefore this point needs to be finalized during Tendering Process otherwise Bidders may get confused while quoting their prices during Tendering	The earth fault current of the metallic screen shall be as per IEC. Metaalic Screen shall be designed such that it can safely discharge the required fault current. However, the thickness of the metallic screen shall not be less than as specified in TDS in the Bid document.										
2	1.15 Metallic Screen 3 Core 150 Sqmm	Kindly note the required value of Earth fault of 25 KA for 3 Sec is commonly not desired (In genral Industrial practice, Earth Fault of 0.3 KA for 1Sec is required) as the Earth Fault requirement of screen is above that of conductor hence it may lead to COMPLETE SYSTEM FAILURE	<table border="1"> <tr> <td colspan="2">Short Cicuit Current for the cables shall be read as</td> </tr> <tr> <td>Conductor Size, sq.mm</td> <td>Short Circuit Current (Is), kA</td> </tr> <tr> <td>150</td> <td>14.17</td> </tr> <tr> <td>300</td> <td>28.34</td> </tr> <tr> <td>400</td> <td>37.79</td> </tr> </table>	Short Cicuit Current for the cables shall be read as		Conductor Size, sq.mm	Short Circuit Current (Is), kA	150	14.17	300	28.34	400	37.79
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3	1.2 Genral Construction	Kindly note as the requirement of specification is not inline with IEC specification hence the specification requires intense rework, same is explained in the mentioned points.	Please follow IEC Standard										
4	1.2 Genral Construction Common Covering/ Inner sheath	In line 6 of Cl. No. 1.2, it is indicated that "Each core shall have a polyethylene sheath". The said construction is inappropriate for multi core cables. Since the cables are multicore therefore sheath shall be provided over the laid up cores only. Hence specification is in complete contradiction of IEC standard thereby inabiling us to quote the said cable. Thereby we request to once again introspect the specification requirem ent on mandatory basis	Common inner covering sheath is accepted.										

