SCHEDULE CABLE (II)

GUARANTEED TECHNICAL INFORMATION OF CABLE SYSTEM

(TO BE SUPPLIED WITH CONTRACT)

#REF!

ITEM	DESCRIPTION		TECHNICAL PARTICULARS
			20KV
	BIDER NAME :		
1	**Medium voltage power cables**		
1-1	**Manufacturer's information**		
	a) Name and country		
	b) Type and designation		
1-2	**Quantity**	**m**	
1-3	**Applicable technical standard**		
1-4	**Voltage rating**	**KV**	
1-5	**Number of cores**		
1-6	**Conductor details :**		
1-6-1	**Sectional area of conductor (s)**	**mm2**	
1-6-2	**Material**		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-6-3	Whether circular or shaped		
1-6-4	Number and size of wires	No./mm	
1-6-5	Conductor screen		
1-6-5-1	Materials and type		
1-6-5-2	Minimum and nominal thickness		
1-7	Type of insulation		
1-8	Nominal radial thickness of insulation :		
1-8-1	Between conductors	mm	
1-8-2	Between conductor and / or screen	mm	
1-9	Metal screen :		
1-9-1	Material		
1-9-2	Minimum thickness at any point	mm	
1-9-3	For aluminium sheaths only		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-9-3-1	Depth of corrugations	mm	
1-9-3-2	Pitch of corrugations	mm	
1-10	Nominal diameter over metal screen	mm	
1-11	Composition of lead (alloy) sheath (if any)		
1-11-1	Tin	%	
1-11-2	Cadmium	%	
1-11-3	Antimony	%	
1-11-4	Lead	%	
1-12	Composition of aluminium sheath :		
1-12-1	Grade of aluminium		
1-12-2	Method of application		
1-13	Bedding for armor (inner plastic sheath) :		
1-13-1	Material		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-13-2	Nominal thickness	mm	
1-14	Armor :		
1-14-1	Material (galvanized steel , aluminium , …)		
1-14-2	Double tape armor		
1-14-2-1	Thickness of tapes	mm	
1-14-2-2	Width of tapes	mm	
1-14-2-3	Maximum gap between conductors	mm	
1-14-3	Single wire armor		
1-14-3-1	Round or flat		
1-14-3-2	Number of wires		
1-14-3-3	Thickness of wires	mm	
1-14-4	Double wire armor		
1-14-4-1	Number of wires in first layer		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-14-4-2	Number of wires in second layer		
1-14-4-3	Diameter of wires	mm	
1-15	Outer covering :		
1-15-1	Material and color		
1-15-2	For fibrous servings only nominal thickness	mm	
1-15-3	For extruded servings only		
1-15-3-1	Min . thickness	mm	
1-15-3-2	Nom . and max . thickness	mm	
1-16	Nominal overall diameter of completed cable	mm	
1-17	Nominal weight of one meter of completed cable	Kg	
1-18	Minimum rating of bend round which cable can be laid :		
1-18-1	In ground or air	m	
1-18-2	In ducts		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-18-3	Adjacent to terminations with former		
1-19	Minimum radius of bend for individual cores at joints and terminations	m	
1-20	Maximum DC resistance of conductor for 1000 meters of cable at 20 °C	Ω	
1-21	Equivalent star reactance per 1000 meters of the three phase circuit at rated frequency	Ω	
1-22	Maximum electrostatic capacitance	F	
1-22-1	Between one core and the remainder bunched and connected to metal sheath		
1-22-2	Between one core and screen		
1-22-3	Between all cores (bunched) and sheath		
1-23	Max . permissible continuous current carrying capacity under "as laid" condition :	A	
1-23-1	Ground temperature 25 °C , 30 °C , 35 °C and 40 °C		
1-23-2	Depth of laying 70 cm		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-23-3	Thermal resistivity of ground 1 °C m/w		
1-23-4	Spacing between cables , flat formation , 7 cm		
1-23-5	Continuous operation (load factor = 1)		
1-24	Max . permissible continuous current rating of cable at 40 °C , 45 °C , 50 °C and 55 °C ambient temperature , continuous operation and 7 cm spacing between cables under laid conditions as follows :		
1-24-1	In concrete cable trench	A	
1-24-2	In air	A	
1-24-3	In cable duct or pipe	A	
1-25	Maximum conductor temperature corresponding to item 1-22 & 1-23 above	°C	
	a) Normal permanent load		
	b) Emergency load max . during 8h/day and 100h/annual		
	c) Short circuit		

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-26	Maximum permissible short circuit rating of three second duration assuming short circuit occurs when cable is at its maximum operating temperature :		
1-26-1	Conductor	KA	
1-26-2	Screen	KA	
1-27	Maximum temperature attained by conductor and metal sheath under the short circuit conditions of item 1-25 above :		
1-27-1	Conductor temperature corresponding to item 1-25-1	°C	
1-27-2	Metal sheath temperature corresponding to item 1-25-2	°C	
1-28	Method of installation (e.g : laid directly in the ground , drawn into ducts , erected in air , or in concrete cable trench)		
1-29	Depth of laying		
1-29-1	Twin and multi core cables to axis of cable	mm	
1-29-2	Single core cables in close trefoil formation to axis of uppermost cable	mm	
1-29-3	Single core cables in flat formation to axis of cable	mm	

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ITEM	DESCRIPTION		TECHNICAL PARTICULARS
1-29-4	Cables in ducts to axis of duct	mm	
1-30	Spacing :		
1-30-1	Twin and multi core cables between axis of adjacent cables	mm	
1-30-2	Single core cables in close trefoil formation between axis of trefoils	mm	
1-30-3	Single core cable in flat formation between axis of cables forming one three phase circuit	mm	
1-31	Estimated length for high voltage power cable	m	
1-32	XLPE curing method		