

APPENDIX 3: MTO FOR ELECTRICAL AND INSTRUMENT CABLE TRAY/ LADDER ON FPU

No.	Description	Unit	Quantity	Model, P/N	Manufacturer/Origin	Delivery Time	Remarks
1	ELECTRICAL CABLE TRAY/LADDER AND ACCESSORIES						
1	CABLE LADDERS AND ACCESSORIES						
	HEAVY DUTY STAINLESS STEEL SS316, 2MM THK, 300MM RUNG SPACING, 150MM OVERALL DEPTH, COMPLETED WITH COVERS THICKNESS 1.0 MM, COVER CLAMPS, HEX HEAD BOLTS & SPRING WASHERS, HOLD DOWN CLAMPS, LADDER SPLICE CONNECTOR (ALL MATERIAL IS SS316), EARTHING JUMPER. CABLE LADDER SHALL BE SUITABLE FOR OFFSHORE/MARINE INSTALLATION (VENDOR SHALL PROVIDE DETAIL SPECIFICATION, NECESSARY QUANTITY FOR ALL ACCESSORIES, BOLTS, NUTS, WASHERS FOR COMPLETED TRAY/LADDER INSTALLATION. ALL MATERIAL IS SS316).						
1.1	CABLE LADDER, STRAIGHT RUN (3 METRES PER SECTION/ LENGTH) 300MM WIDTH	LENGTH	4				
1.2	CABLE LADDER, STRAIGHT RUN COVER (3 METRES PER SECTION/ LENGTH) 300MM WIDTH	LENGTH	3				
1.3	COVERS, SPLICE CONNECTORS AND ALL REQUIRED ACCESSORIES, BOLTS, NUTS, WASHERS, MATERIAL TO COMPLETE INSTALLATION FOR CABLE LADDERS LISTED IN THE ITEM 1	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.
2	CABLE TRAY AND ACCESSORIES						
	HEAVY DUTY CABLE TRAY PERFORATED OF STAINLESS STEEL (SS316) TYPE. CABLE TRAY WITH 1.5MM THICKNESS, 50MM DEPTH. COMPLETED WITH COVERS THICKNESS 1.0 MM, COVER CLAMPS, HEX HEAD BOLTS & SPRING WASHERS, HOLD DOWN CLAMPS, LADDER SPLICE CONNECTOR (ALL MATERIAL IS SS316), EARTHING JUMPER. CABLE TRAY SHALL BE SUITABLE FOR OFFSHORE/MARINE INSTALLATION (VENDOR SHALL PROVIDE DETAIL SPECIFICATION, NECESSARY QUANTITY FOR ALL ACCESSORIES, BOLTS, NUTS, WASHERS FOR COMPLETED, TRAY/LADDER INSTALLATION. ALL MATERIAL IS SS316).						
2.1	CABLE TRAY, STRAIGHT RUN (3 METRES PER SECTION/ LENGTH)						
2.1.1	50MM WIDTH	LENGTH	3				
2.1.2	100MM WIDTH	LENGTH	8				
2.2	CABLE TRAY, STRAIGHT RUN COVER (3 METRES PER SECTION/ LENGTH)						
2.2.1	50MM WIDTH	LENGTH	3				
2.2.2	100MM WIDTH	LENGTH	8				
2.3	SS316 VERTICAL HOLD DOWN ANGLE BRACKETS, LOCKING SCREWS, BOLTS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD. ALL ASSEMBLY FASTERNES BOLTING SETS SHALL BE SS316.	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.

APPENDIX 3: MTO FOR ELECTRICAL AND INSTRUMENT CABLE TRAY/ LADDER ON FPU

No.	Description	Unit	Quantity	Model, P/N	Manufacturer/Origin	Delivery Time	Remarks
II	INSTRUMENT CABLE TRAY/LADDER AND ACCESSORIES						
1	CABLE TRAY AND ACCESSORIES						
	- CABLE TRAY SHALL BE 316SS, OUTWARD FACING, RETURN FLANGE TYPE 50MM HEIGHT, 1.5MM THICKNESS, COMPLY WITH IEC 61537. - CABLE TRAY SHALL INCLUDE 1MM THICKNESS SS316 COVER; SS316 SPLICE CONNECTORS; SS316 VERTICAL HOLD DOWN ANGLE BRACKETS; SS316 COVER CLAMPS FOR COVER; SS316 BOLTS, NUTS & WASHERS (SELF-LOCKING TYPE) & INSULATION SLEEVE; EARTHING JUMPERS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD.						
1.1	CABLE TRAY, STRAIGHT RUN (3 METRES PER SECTION/ LENGTH)						
1.1.1	50MM WIDTH	LENGTH	9				1 Length for Telecom + 5 Length for site run
1.1.2	75MM WIDTH	LENGTH	5				for site run
1.1.3	100MM WIDTH	LENGTH	9				4 Lengths for Telecom
1.1.4	150MM WIDTH	LENGTH	2				
1.2	COVERS, SPLICE CONNECTORS AND ALL REQUIRED ACCESSORIES, BOLTS, NUTS, WASHERS, MATERIAL TO COMPLETE INSTALLATION FOR CABLE TRAYS LISTED IN THE ITEM 1	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.
2	CABLE LADDER AND ACCESSORIES						
	- CABLE LADDER SHALL BE 316SS, OUTWARD FACING, RETURN FLANGE TYPE 150MM HEIGHT X 3000MML, 2MM THICKNESS, COMPLY WITH IEC 61537. - CABLE LADDER SHALL INCLUDE 1MM THICKNESS SS316 COVER; SS316 SPLICE CONNECTORS; SS316 VERTICAL HOLD DOWN ANGLE BRACKETS; SS316 COVER CLAMPS FOR COVER; SS316 BOLTS, NUTS & WASHERS (SELF-LOCKING TYPE) & INSULATION SLEEVE; EARTHING JUMPERS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD.						
2.1	CABLE LADDER, STRAIGHT RUN (3 METRES PER SECTION/ LENGTH) 150MM WIDTH	LENGTH	5				
2.2	90 DEGREE FLAT BEND, 316SS C/W 6 COUPLING SETS & FASTENINGS. 100MM WIDTH	PC	5				
2.3	90 DEG. FLAT ELBOW, 316SS C/W 4 COUPLING SETS & FASTENINGS 300MM WIDTH	PC	1				
2.4	90 DEGREE RISER (INSIDE & OUTSIDE) 316SS C/W 4 COUPLING SETS & FASTERNINGS.						
2.4.1	300MM WIDTH (OUTSIDE)	PC	2				
2.4.2	300MM WIDTH (INSIDE)	PC	2				
2.5	COVERS, SPLICE CONNECTORS AND ALL REQUIRED ACCESSORIES, BOLTS, NUTS, WASHERS, MATERIAL TO COMPLETE INSTALLATION FOR CABLE LADDERS LISTED IN THE ITEM 2	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.